Commerce

# TEXTILE BULLETIN

**VOLUME 25** 

CHARLOTTE, N. C., THURSDAY, NOVEMBER 15, 1923.

NUMBER 12



## Correct Atmospheric Condition Maintained in Your Mill Every Working Day

Install a system of BAHNSON HUMIDIFIERS in your mill. Each humidifier a complete humidifying unit in itself, you know—start this system operating, set the individual automatic controls for the condition you want, forget about it and they will regulate and control the humidity accurately.

The humidifier fans produce a strong, horizontal air circulation that thoroughly mixes and distributes the humidity into every part of the room.

You can get a more even condition throughout your rooms with BAHNSON Humidifiers than you can with any other system on the market.

Our Services are Yours for the Asking

## The Bahnson Company

Humidification Engineers

Winston-Salem, N. C.

New York Office, 437 Fifth Ave.

The

## Liberty Knotter



is something absolutely new. It is a Southern product made for Southern mills by Southern people, who know the requirements and have provided for them.

GUARANTEED FOR ONE YEAR

Write for Information

Mill Devices Co. Durham, N. C.

A. B. CARTER, Sales Agent, Gastonia, N. C.

DRAW-IN only one time and change to any cloth when you weave with

## "DUPLEX"

Flat Steel Loom Harness

### Steel Heddle Manufacturing Co.

Greenville

Philadelphia

Providence

Southern Office

#### 509 Masonic Temple, GREENVILLE, S. C.

Hampton Smith, Sou. Mgr.

N. B.—We are the sole manufacturers of nickel plated drop wires for every kind of loom.

#### (AMALIE PRODUCTS)

## "Fair" is not Good Enough for You

Find Out How Sonneborn Warp Dressing Helps You to Get Better Weaving

There are many cotton mills today getting "fair" production that would get a great deal more if they heard the whole story of Sonneborn savings from one of our experts.

Amalol and Gluantine, the Sonneborn warp dressing preparations, are the results of years of study and research in our textile laboratories. These products are proving themselves a positive aid to the production of the highest quality weaving—helping to secure a uniform size regain. Daily performance in many prominent New England and Southern mills testifies to this.

There is a mill using Amalol and Gluancine in your vicinity. Write us for its name and the names of many other users of these products. Let one of our experts show you in your plant how scientific warp dressing will aid in getting quality weaving. No obligation. Write,

## L. Sonneborn Sons, Inc.

116 Fifth Avenue

New York

Amalol—for cotton warp dressing—Gluantine
Manufacturing Chemists for the Textile Industry

L. SONNEBORN SONS.INC., NEW YORK.N.Y.

## Starch



## -and these Stars have a meaning

They signify the different grades in which Thin Boiling Eagle Starch is offered to the textile industry.

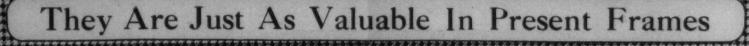
Being the pioneers in the manufacture of Thin Boiling Starches, we are gratified at the widespread recognition they have received.

Be sure to select the grade best suited to your work. Our knowledge and experience is at your service.

CORN PRODUCTS REFINING CO.

Southern Office: Greenville, S. C.

Starch



You need not
wait until you order
new spinning and twister
frames to cash in on the economy and durability of Hyatt roller bearings.

The Hyatt replacement box makes it very easy to modernize your present equipment by replacing the old style wasteful plain bearings with economical power saving Hyatt bearings.

Tests under actual operating conditions show that Hyatt bearings save more than ½ H.P. per frame—this saving alone will pay for the bearings in a very short time and they will continue to pay dividends throughout the life of the frames.

The oil-tight housing of Hyatt bearings retains the oil, therefore they need oiling only 3 or 4 times a year.

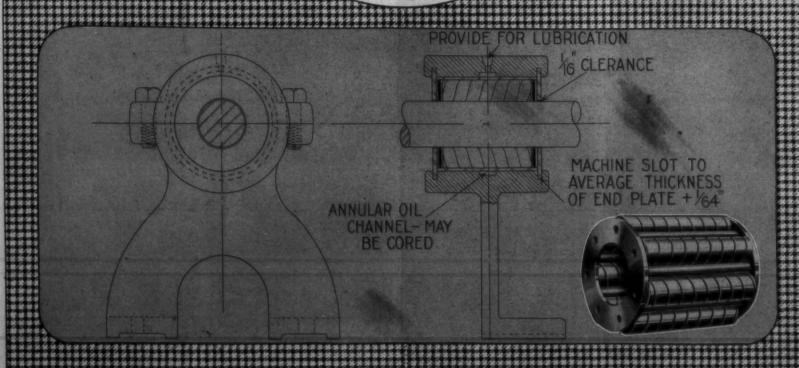
You can secure all advantages of Hyatt bearings on any make of frame now. Write us for complete information.

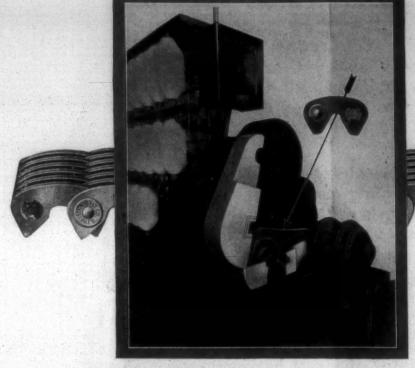
## Hyatt Roller Bearing Company

Newark Detroit Chicago San Francisco

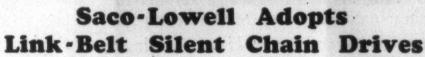
Worcester Milwaukee Huntington
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Flexible as a Belt-Positive as a Gear More Efficient than Either.



THE Saco-Lowell Shops of Biddeford, Maine, have adopted Link-Belt Silent Chain Drives as standard equipment on Saco-Lowell Roving Frames.

Here is another instance where the advantages of Link-Belt Silent Chain in the efficient transmission of power, have merited adoption by one of the country's foremost builders of standard machinery.

The illustration shows the Link-Belt Silent Chain Drive (encased) driven by a 3 H. P. General Electric Textile-Type motor, 1150 R. P. M. The Roving shaft operates at 391 R. P. M. on 14½-inch centers. The driven wheel includes a spring compensating device which makes a smooth, vibrationless drive.

Learn more about this efficient means of transmitting power. Send for Link-Belt Data Book No. 125.

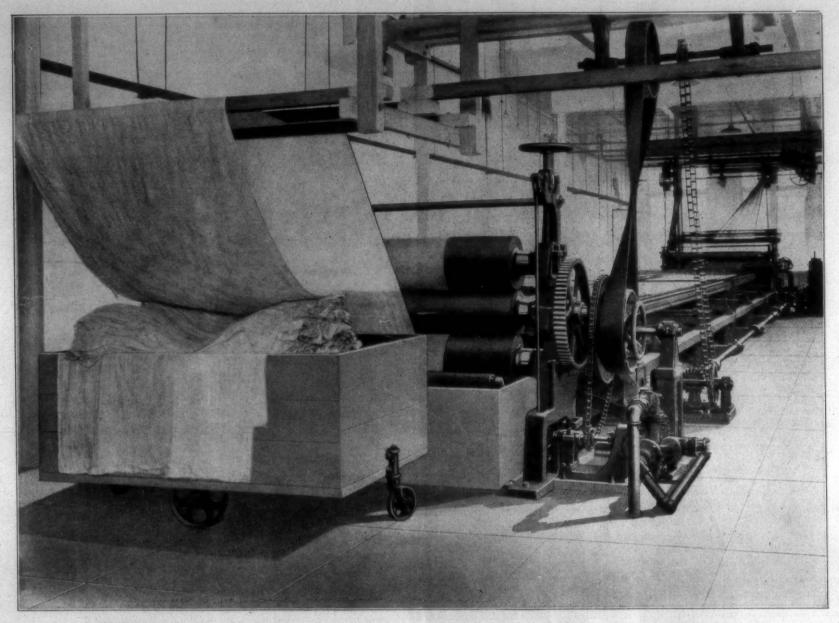


LINK-BELT COMPANY

CHICAGO, 300 W. Pershing Road PHILADELPHIA, 2045 Hunting Park Ave.

INDIANAPOLIS, 501 N. Holmes Ave. 307 Flmhurst Bidg.
520 Boston Bidg.
520 Boston Bidg.
521 Starket Stg.
J. S. Cottran. 909 Com'l Bank Bidg.
532 Starke Bidg.
534 Carondelet Bidg.

SILENT CHAIN DRIV



## Mercerization gives an added talking point to goods—strength

—And this is the strength that means wearing quality. Mercerization, in addition, improves the appearance of fabric.

It also insures the goods against shrinking, as maximum shrinkage is attained in the process.

Whether your product is just the warp or the woven fabric, we will be glad to help you answer the question as to whether or not it will be to your advantage to mercerize it.

We have prepared a booklet entitled, "Mercerization," which we will be glad to send if you are interested.

H. W. BUTTERWORTH & SONS CO.

Established 1820

PHILADELPHIA, PA.

Providence Office
Turk's Head Building

Southern Representative Milton G. Smith Greenville, S. C.

Canadian Representative W. J. Westaway Co. Hamilton, Ontario, Can.

## BUTTERWORTH Finishing MACHINERY



Westinghouse Individual Motor Drive has become standard practice in every branch of the textile industry.

An ineffective war is daily being waged against Westinghouse motors every-

The necessary protective qualities have been determined by a careful study of each application. Westinghouse motors go into battle with the assurance of victory preceding them.

Dust proof bearings, impregnated windings, screens for the protection of the interior against lint or other foreign substances, are among the protective features of Westinghouse Textile Motors.

Successful performance has been a source of satisfaction to both builder and user alike-testifying to the fact that they are designed right, built right and applied right.

Westinghouse Electric & Manufacturing Company
East Pittsburgh Pennsylvania

Westinghouse

## SOUTHERN THE BUILF

PUBLISHED EVERY THURSDAY BY CLARK PUBLISHING COMPANY, 19-41 S. CHURCH STREET, CHARLOTTE, N. C. SUBSCRIPTION \$2.00 PER YEAR IN ADVANCE. ENTERED AS SECOND CLASS MAIL MATTER MARCH 2. 1911. AT POSTOFFICE. CHARLOTTE, N. C., UNDER ACT OF CONGRESS, MAR. 3. 1870

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CHARLOTTE, N. C., THURSDAY, NOVEMBER 15, 1923.

NUMBER 12

## Employee Representation at Pacific Mills

(H. Gilbert France, Service Manager of Pacific Mills, before National Association of Cotton Manufacturers.)

tries with employee representation. As you may remember John Leitch's interesting book "Man to Man" appeared at that time and although I feel that his "industrial democracy" is not a sound solution of the prob-lem that confronts all of us, his book served to awaken many of us to constructive action in approaching the labor problem. As a result some of the men in our organization visited the William Demuth Com-pany, where John Leitch's scheme had been in operation a number of years, we went to the International Harvester Company, which was just others. The first definite step leading to employee representation taken by us at our Lawrence plants us. was the introduction of safety committees, which were composed of employees appointed by the over-seers. It was natural that at first mittees began to function and to call attention to dangerous conditions and to point out remedies an election be held resurrecting the more competent persons began to former safety committees and that serve on them. Eventually it bethe 91 persons so elected should came the practice of a good many elect a sub-committee of 11 to work overseers to leave the selection of the safety committee member to his employees, either allowing one section at a time to select one or conducting an election in his department as a whole. While this change in the manner of selecting members was in progress, there was also a change in the kind of subjects that were being brought up in the meet-Gradually other things than safety were discussed, at first they were matters of services to the employees, but later changed to more fundamental matters until one committee raised the question of whether or not a certain employee had been fairly discharged and also took up matters of production.

Realizing that the overseers could make or break any labor policy of the company, our next step was to order of the number of votes re-basis for its work: "The purpose of At the same time the management begin to convince them that em-ceived and then took twice as many a plan of employee representation is ratified it also. I will not attempt ployee representation was a good names as were eligible for election to promote understanding and fair to go into it in detail as it would thing. In the fall of 1921 we sent in each department and printed dealling between management and consume too much of your time, but three different groups of overseers them on the final ballots which were employees by (Continued on Page 31)

It was early in the year of 1919 to Chicago, New York, Philadelphia distributed on January 17th. The when we first started to study care- and Lynn to see for themselves how fully the experience of other indus- employee representation was workemployee representation was working. The result of these trips can ing. The result of these trips can best be illustrated by the remarks of one of the overseers. On the way out to Chicago the party was discussing what they were going to see and he said "Employee representation to my mind is the first step towards Bolshevism." On the way back he could not say enough in favor of what he had seen and at an overseer's meeting got up and stated that what Pacific Mills should do was to adopt word for word the plan of employee representation that he had seen in action. The big strike of 1922 seemed on the face of introducing its successful plan of it to be a direct denial that we were employee representation in March making any progress, but actually it of 1919, to the General Electric convinced us even more of the need Company, to the Midvale and Beth-lehem Steel Companies and to many ployers and it proved to us that the ployers and it proved to us that the days of suddenly posting notices of wage reductions had gone by with

On January 9th of this year we issued to each employee a bulletin which announced that "the manageed for the frank discussion of their joint problems." We proposed that with eight management representa-tives to devise a plan of employee representation that would fit our needs. On January 11th we issued blank ballots to every employee be-low the rank of second-hand with instructions that each employee write in the pages of as many emwrite in the names of as many employees as his department was entitled to have as representatives. The nominations aroused a good deal of interest as 84 per cent of the number of persons on our payroll cast ballots. Of course we got some ballots that contained facetious remarks or gave suggestions that we restore the 22½ per cent wage cut of December, 1920, but that was really to be expected with 8,000 ballots being distributed. We ranked the names from these ballots in the

number of the primary, the final percentages being 85 per cent. The interest in the election was clearly shown in many departments by posters advocating the election of a certain individual or even advocating the defeat of another. In this last case a poster was put up "Don't vote for So and So" who happened to be a man who had been very active against us in the strike and who was well known throughout the city for his radical utterances. The overseer of that department, even though he heartily agreed with the sentiments expressed in the poster, did not think it was an ethical piece of electioneering, so he had that poster removed. The voters in the department showed the same good judgment as the overseer by defeating the candidate referred to. As a rule the employees elected some of the best men in each department, for example, 24 of the representa-tives were fixers, 63 of them were Anglo-Saxons, their average length

turned winners. Our plants at Lawrence are dividour plants at Lawrence are divided into four distinct geographical units, namely, the Cotton Department, No. 10 Mill, the Lower Mill and the Print Works. After election the delegates in these four units met alone and each unit elected two members to a joint committee, except the Print Works, which elected three, making a total of 11 employee members. The management pointed eight persons from the rank of overseer and higher to serve on this committee, which was organ-

tee was held on January 30th of this

(a) Providing the the employees number of ballots that were marked with a means of expressing to the in the final election exceeded the management their opinions on all matters concerning their working conditions.

(b) Providing the management with a means of consulting with the employees on matters of mutual concern.

The committees to be established under this plan are advisory and are

for the purpose of assisting the management in making its decisions with due regard to the point of view of the employees

One of the first questions asked by the employee members of this committee was whether or not the management had any plan that it felt would answer the purpose. We stated that we had drawn one up for the purpose of clarifying our opinions, but that it could not be considered a definite or final plan. Quite a debate followed with the employees arguing that our plan should be used as a basis for discussion, while many of the management representatives argued that it would be better if the employees seers. It was natural that at first ment of Pacific Mills feels that the of service with the company was presented a plan. Finally it was many overseers appointed persons best interests of the employees and over six years and their average age agreed that our tentative plan they could spare best with the result that the ablest persons in many management and the employees ganization in Lawrence had publicly meeting. Meanwhile the employee departments did not get on the component of the structure of the situation in operation at other plants and stated that members were given copies of plans mittee, but gradually as the component of function and to the first three theorems. by electing a majority of the dele- other literature showing the results gates, but when the voting was over of such plans. At the second meetit showed that only three of the ing of this committee the plan that persons who were active in the we had drawn up was gone over organization had actually been re- item by item and various changes item by item and various changes were made. The next step was to send the employee members of the committee to the General Electric Company at Lynn and the U.S. Rubber Company at Malden, where they talked with representatives of they talked with representatives of these companies and with some of the employees. I later learned that they showed these employees our modified plan and obtained their opinions on how it would work. After these trips the employee members met for a day and half by themselves and made other corrections to our plan and then finally on tions to our plan and then finally on ized for the purpose of working up February 19th the whole committee a tentative plan of employee repremet and came to a unanimous sentation.

The first meeting of this commit
The first meeting th held meetings of all the delegates in year and the following purpose of the four units and presented the our plan was presented to it as a plan to them and had it ratified.

#### October Cotton Consumption.

Washington, Nov. 14.—Cotton consumption was larger during October than in any month since last June, but for the first three months of the cotton year it was about 37,000 bales less than during that period last year, Census Bureau figures issued today show.

Cotton growing States had the largest number of active spindles on record during October. Exports of cotton for the month exceeded September by 92,000 bales and for the first htree months of the cotton year 275,000 bales more were exports than in the same period last year. Cotton on hand October 31 was about 1,000,000 bales less than a year ago.

Cotton on hand October 31 was:

In consuming establishments 1,-102,583 bales of lint and 87,515 of linters, compared with 773,173 of linters, compared with 773,173 of lint and 92,819 of linters on September 30 this year and 1,381,945 of lint and 82,403 of linters on October 31 list year

In public storage and at compresses 3,485,839 bales of lint and 35,810 of linters, compared with 2,-147,830 of lint and 22,197 of linters on September 30 this year and 4,-267,119 of lint and 16,798 of linters on October 31 last year.

Imports during October totalled 7,615 bales, compared with 6,608 in September this year and 26,813 in October last year.

Exports during October totalled 781,722 bales, including 3,938 bales of linters, compared with 689,435 bales including 3,732 of linters in September this year and 798,664 bales including 1,633 of linters in October last year.

Cotton spindles active during October numbered 34,378,662 compared with 33,929,885 in September this year and 33,837,435 in October last

Statistics for cotton growing States include:

Consumed during October 357,673 bales, compared with 327,441 in September this year and 346,095 in October last year.

Cotton on hand October 31 was:

In consuming establishments 707,-536 bales, compared with 374,507 on September 30 this year, and 858,491 on October 31 last year.

In public storage and at compresses, 3,353,479 bales, compared with 3,025,068 on September 30 this year and 4,083,181 on October 31 last year

Cotton spindles active during October numbered 16,084,942 compared with 16,011,049 during September this year, and 15,211,025 during October last year.

#### Chinese Carpet Industry Active.

The rug manufacturing industry in North China is verry prosperous, according to a report received by the Department of Commerce from Clerk Anselm Chuh, Peking. The total value of rugs exported to foreign countries in 1922 from China was estimated at Hk. Tls. 3,299,727 (haikwan tael equals approximately \$0.775), of which 2,687,175 Hk. Tls. worth were sent to the United States

#### CLARK'S TABLES

of Manufacturing Margins on Weaving Yarns

Tables below are compiled by deducting from net returns from yarn sales the total cost of cotton.

NET RETURNS for weaving yarns are selling prices less 5 per cent commission, 3 per cent discount and freight.

TOTAL COTTON COST is price of cotton with cost of 15 per cent waste

added or is the cost of cotton per pound of yarn.

MANUFACTURING MARGIN is NET RETURNS less TOTAL COTTON COST and is the amount that is left to cover wages, salaries, power,

TO USE TABLES—Find selling price of yarn on top line and price of cotton on side and the figure in square caused by their intersections is the manufacturing margin.

(Copyright by Clark Publishing Co.)

Table No. 1

				2001/2001											ATTENDED BY	17.67				
Cost of	Cotton Plus Waste	Price	of Yarn of Yarn ess & .65 frt	31	32	33	34	35	36	37	38	39 35.29	40	41  37.13	42	43	44	45	46	47 42.66
12 1	14.12	1		113.80	14.72	15.64	16.56	17.48	18.40	19.33	20.25	21.17	22.09	23.01	23.93	24.85	25.78	26.70	27,62	28.54
13	15.29	Bearing to the second		112.70	13.55	114.47	15.39	16.31	17.23	18.16	19.08	20.00	20.92	21.84	122.76	23.68	24.61	25.53	26 45	27.37
14	16.47	1		111.45	12.37	13.29	14.21	15.13	16.05	16 98	17.90	18.82	19.74	20.66	21.58	22.50	23.43	24.35	25.27	26.19
15	17.65	1		10.27	11.19	12,11	13.03	13.95	14.87	15.80	16.72	17.54	18.56	19.48	20.40	21.32	22.25	23.17	24.09	25.01
16	18.82	1		9.10	10 02	10.94	11.86	12.78	13.70	14.63	15.55	16.47	17.39	18.31	19.23	20.15	21.08	22.00	22.92	23.84
17	20 00	1.50		7.92	8.84	9.76	10.68	11.60	12.52	13.45	14.37	15.29	16,21	17.13	18.05	118.97	19.90	20.82	21.74	22.66
18	21.18			6.74	1 7.66	8.58	9.50	10.42	111 34	112.27	13.15	14.11	15.03	15.95	16.87	117.79	18.72	19.64	20.56	21.48
19	22.35			1 5.57	6.49	7.41	8.33	9.25	10.17	111.10	112.02	12.94	13.86	14.78	15.70	16.62	17.55	18.47	19.39	20.31
20	23.53			4.39	5.31	6.23	7.15	8.07	8.99	9.92	10.84	11.76	12.68	13 60	14.52	15.44	16.37	17.29	18.21	19.13
21	24.71			3,21	4.13	5.05	1 5.97	6.89	7.81	8.64	9.66	10.58	11.50	12.42	13.34	14.26	15.19	16.11	17.03	17.95
22	25.88			2.04	2.96	3.88	4.80	5.72	6.64	7.57	8.49	9.41	10.33	11 25	112.17	13.09	14.02	14.94	15.86	16.78
23	27.06			1 .86	1.78	2.70	3.63	4.54	5.46	6.39	7.31	8.23	9.15	10.07	10.99	111.91	12.84	13.76	14.68	15.60
24	28.23			1	.61	1.53	2.45	3.37	4.29	5.22	6.14	7.06	7.98	8.90	9 82	10.74	11.67	12.59	13.51	14.43
25	29.41			1	l	.35	1.27	2.19	3.11	4.04	4.96	5.88	6 80	7.72	8.64	9.56	10.49	11.41	12.33	13.25
26	30.59			-		1	1 .09	1.01	1.93	2.86	3.78	4.70	5.62	6 54	7.46	8.38	9.31	10.23	11.15	12.07
27	31.76			1		L	-	1	1 .76	1.69	2.61	3.53	4.45	5.37	6.29	7.21	8.14	9.06	9.98	10.90
28	32.94			i						.51	1.43	2.35	3.27	4.19	5.11	6.03	6.96	7.88	8.80	9.72
29	34.12									-	.25	1.17	2.09	3.01	3.93	4.85	5.78	6.70	7.62	8.54
30	35.29			l			-						.92	1.84	2.76	3 68	4.61	5.53	6.45	7.37
31	36.47						1			1	1			1 .66	1.58	2 50	3.43	4.35	5.27	6.19
32	37.65								1	-			1		1 .40	1.32	2.25	3.17	4.09	5.01
33	38.82					-			-			1		I		.15	1.08	2.00	2.92	3.84
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36	42.35					1	E 10 10 10 10							1			m month			.31

Table No. 2

Cost of	Cotton Plus Waste	Price	of Yarn	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
ot	ot	I 0 20	ess & .65 fr	49 59	44 50	AE AS	46 95	47 07	49 10	40 11	50.02	E0 0E	E4 00	E9 90	E9 79	EA DA	EE E0	E0 40	E7 46	58.33
001	OHP	5% & 37	11 60. 30 0	10.00	22.00	170.42	140.00	21.01	40.13	40.11	30.03	30.33	01.00	02.00	03.14	04.04	00.00	100.40	107.40	100.00
12	14 12																			8 44.21
13	15.29			28.29	29.21	30.13	31.06	31.98	32.90	33.82	34.74	35.66	36.59	37.51	38.43	39.35	40.27	41.19	142.11	43.04
14	16.47	Bank Street		27.11	28.03	28.95	29.88	30.80	31.72	32.64	33.56	34.48	35.41	36.33	37.25	38.17	139.09	40.01	140.9	141.86
15	17.65																			40.68
16	18.82			24.76	25.68	26.60	27.53	28.45	29.37	30.29	31.21	32.13	33.06	33.98	34.90	35.82	136.74	137.6	6 38.5	3 39.51
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19	22.35			21.23	22.15	23.07	24.00	24.92	25.84	26.76	27.68	28.60	29.53	30.45	31.37	32.29	33 21	34.13	3 35.05	5 35.98
20	23.53			20.05	20.97	121.89	22.82	23.74	24.66	25.58	26.50	27 42	28.35	29.27	30.19	31.11	32.03	32.9	5 33.8	7 34.80
21	24.71		STATE OF BUILDING	18.87	119,79	20.71	21 64	.22.56	23.48	24.40	25.32	26.24	27.17	28.09	29.01	29.93	3130.8	31.7	7 32.6	9133.62
22	25.88			17.70	18.62	19.54	20.47	21 39	22.31	23.23	24.15	25.07	26.00	26.92	27.84	28.76	29.68	30.60	0 31.53	2 32.45
23	27.06	1		16.52	17.44	118.36	119.29	20.21	21.13	22.05	22 97	23.89	24.82	25.74	26.66	27.58	128.50	129.4	2 30.3	4 31.27
24	28.23	1		15.35	16.2	7 17.19	18.12	19.04	19.96	20.88	21.80	122.72	23.65	24.57	25 49	26.41	127.3	3 28.2	5   29.1	7 30.10
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31	36.47	INCHES NO.	THE PROPERTY OF STREET																	3 21.86
32	37.65	1		5.93	6.8	5 7.77	1 8.70	9.62	110.54	11.46	12.38	13.30	114.23	15.15	16 07	116.99	17.9	1/18.8	3 19.7	5 20.68
33	38.82	1		4.76	5.6	6.60	7.53	8 45	9.37	10.29	111.21	112.13	13.06	13.98	114.90	115.82	2116.7	117.6	6 18.5	8 19.51
34	40 00	1																		0 18.3
35	41.18	100000000000000000000000000000000000000																		2 17.1
36	42.35	I DESCRIPTION OF THE PARTY OF T	HOMBINE IN																	5 15.98
37	43.53	I STATE OF THE PARTY OF		.05																7 14.80
38	44.71	1				71														9 13.62
39	1 45.88	1			1000	-	1 .43	Canada Co.												2 12.4
40	47.06							1 .21												4 11.2
41	48.23	1 3 3 3 3 3 3	S. C. Carlon																	7 10.10
42	49.41	1	100000000000000000000000000000000000000			200		1	1		.62									9 8.9
43	1 50.59	E-100-100-100-100-100-100-100-100-100-10	A CHARLES OF THE PARTY.		10000	a Riss	N BOOK	250000	The same	1	1		1.29							1 7.7
44	1 51.76	1			1	1 1 1 1 1 1	E STEEL STEEL	S SECTION AND ADDRESS OF THE PARTY OF THE PA	LESSIE	1	S COLUMN			1.04				01 4.7	100 4000	4 6.5
	52.94			100000	1		1		1	1	1	1	1							6 5.3
46	54.12	I assessment			1				1		1		1			.5				8 4.2
17	55.29															1	.2			1 3.0
48	56.47				1		1	1			1	1	10000	100000			1	1		3 18
49	57.65	1			1	1			-	The same of	1000	The same	Total Control		1	1		1	1	- 6
- E to	01.00	1		1		at mount	-			-	- Common	1	-		-	-	-1			-1 .00

#### Table No. 3

Cost of	tton	Price of Price of Less 5% & 3%	Yarn Yarn	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
ပိပိ	A LO	5% & 3%	& .65 frt	59.25	60.17	61.09	62.01	62.93	63.85	64.78	65.70	66.62	67.54	68.46	69 38	70.31	71.23	72.15	73.07	73.99
12	14 12	1		45.13	146.05	146.97	147.89	148.81	49.73	150.66	51.58	52.50	53.42	54.34	55.26	56.19	57.11	58.03	58,95	[59.87]
13	15.29	SERVICE CONTRACTOR		43,96	44.88	45.80	46.72	247.64	48.56	149.49	50.41	51 43	52.25	53.17	54.09	155.02	155.94	56.86	57.78	58.70
14	16.47	STATE OF THE PARTY																		157.52
15	17.65	District Control		41.60	142.52	143.44	44.36	6 45.28	146.20	147.13	48.05	48.97	49.89	50.81	51.73	52.66	5 53 58	54.50	155.42	156.34
16	18.82			40.43	141.3	142.27	143.19	9 44.11	45.03	3 45.96	46.88	147.80	148.72	49.64	450.5€	51,49	152.41	[53.33	54.25	5 55.17
17	20.00																			153.99
18	21.18																			52.81
19	22.35	I de la constante																		51.64
20	23.53																			150.46
21	24.71																			5 49 28
22	25.88																			148.11
23	27.06																			1 46.93
24	28.23																			1 45.76
25	29.41																			3 44.58
26	30.59																			3 43.40
27	31.76																			142.23
28	32.94																			3 41.05
29	34.12																			5 39.87
30	35.29																			3 38.70
31	36.47	12.00																		0 37.52
32	37.65			21.60	0 22.5	2 23.4	1 24.3	6 25.28	8 26.20	0 27.1	3 28.0	128.97	7,29.89	30.81	131.73	3 32.6	6 33.58	3 34.50	35.42	2 36.34
33	38.82	The second																		5 35.17
34	40 00			19.2	5 20.1	7 21.0	9 22.0	1 22.9	3 23.8	5 24.7	8 25.70	0   26.63	2 27.5	1 28.46	3 29.38	3 30.3	1 31.23	3 32.1	5 33.0	7 33.99
35	41.18			18.0	7 18.9	9 19.9	1 20 8	3 21.7	5 22.6	7 23.6	0 24.5	2 25.4	4 26.3	6 27.21	8 28.20	0 29.1	3 30.0	5 30.97	7 31.8	9 32.81
36	42.35	1 1 1 1 1 1 1 1 1		16.9	0 17 8	2 18.7	4 19.6	6 20.5	8 21.5	0 22.4	3 23.3	5 24.2	7 25.1	9 26.1	1 27.0	3 27.9	6 28.8	8[29.8	0 30.7	2 31.64
37	43.53	1																		4 30.46
38	44.71																			6 29.28
39	45.88	1																		9 28.11
40	47.06	1																		1 26.93
41	48.23																			4 25.76
42	49.41																			6 24.58
43	50.59																			8 23.40
44	51.76																			1 22.23
45	52.94																			3 21.05
46				5.1	3 6.0	5 6.8														5 19.87
47	55.29			3.9	6 4.8	8 5.8	0 6.7													8 18.70
48	56.47			2.7		0 4.6														0]17.52
49	57.65			1.6																2 16.34
50	58.82	Harman		4	3 1.3	5 2.2	7 3.1	19 4.1	1 5.0	3 5 9	6 6.8	8 7.8	0 8.7	2 9.6	4 10.5	6 11.4	9 12.4	1 13.3	3 14.2	5 15.17

#### Table No. 4

ost of otton	otton lus aste	Price of Price of Less 5% & 3%	Yarn Yarn	_ 82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
OO	STE S	5% & 3%	& .65 f	rt 74.	91 75.83	3 76.76	77.88	78.60	79.52	80.44	81.36	82.28	83.21	84.13	85.05	85.97	86.89	87.81	88.74	89,66	90.58	91.50
22	25.88	1		47.	85 48.7	7149.70	50.62	251.54	152.46	153 38	154.30	55.22	56.15	57.07	57.99	158.91	59.83	160.75	61.68	162.60	63.5	2 64,44
23	27.06				68 47.6																	
24	28.23	The second second	. e		50 46.4																	
25	29.41		2	44.	32 45.2	4 46.17	47.09	148.01	148.93	3 49.85	150.77	51.69	52.62	53.54	54 46	155.38	56.30	57.22	58.15	59.0	7 59.9	9 60.91
26	30.59			43.	15 44.0	7 45.00	145.92	146.84	47.76	48.68	149.60	50.52	51.45	52.37	53.29	54.21	55.13	156.05	56.98	57.90	1 58.8	2 59.74
27	31.76	0.000		41.	97 42.8	9 43.82	44.74	45.66	146.58	47.50	148.42	49.34	50.27	51.19	52.11	53.03	53.95	54.87	55.80	156.72	57.6	4 58 56
28	32.94	The state of the s		40	79 41.7	1 42.6	1 43.56	6 44.48	8 45.40	146.32	47.24	48.16	149.09	50.01	50 93	51.85	52.77	153.69	54.62	55.5	1 56.4	6 57.48
29	34.12			39	62 40.5	4 41.47	42.39	43.31	44.23	45.15	46.07	46.99	47.92	48.84	49.76	50.68	51.60	52.52	53.45	54.37	1 55.2	9 56.21
30	35.29	Territoria de la constantina della constantina d		38.	44 39.3	6 40.29	141.2	142.13	3 43.0	5 43.97	144.85	45.81	146.74	47.66	48.58	49.50	50.42	2 51.34	152.27	53.1	9 54.1	1 55.03
31	36.47	1		37	26 38.1	8 39.1	1 40.03	3 40.9	5 41.8	7 42.79	143.71	44.63	45.56	146 48	147.40	148.32	49.24	150.16	51.09	152.0	1 52.9	3 53.85
32	37.65			36	09 37.0	1 37.9	1 38.8	5 39.78	8 40.70	0 41.62	2 42.54	43.46	44.39	45.31	146.23	47.18	48.07	148.99	149.92	150.8	4 51.7	6 52.68
33	38.82	The Carting		34	91 35.8	3 36.7	6 37.68	3 38.60	0 39.5	2 40.44	141.30	42.28	43.21	44.13	145.08	45.97	7 46.89	147.81	148.74	49.6	6  50.5	8 51.50
34	40 00			33	.73 34.6	5 35.5	8 36.50	0 37.4	2 38.3	4 39.20	140.1	3 41.10	42.03	42.95	43.87	144.79	9 45.7	1 46.63	47.56	148.4	8 49.4	0 50.32
35	41.18	A CONTRACTOR		32	56 33.5	3 34.4	1  35.3	3 36.2	5 37.1	7 38.09	9 39.01	39.93	140.86	141.78	142.70	143.65	2 44.54	145.46	146.39	147.3	1 48 2	3 49.15
36	42.35			31	38 32.3	0 33.2	3 34.1	5 35.0	7 35.9	9 36.91	137.83	38.75	39.68	8 40.60	41.52	42.4	4 43.3	5 44.28	3 45.21	146.1	3  47.0	5 47.97
37	43.53			30	.20 31.1	2 32.0	5 32.9	7 33.8	9 34.8	1 35.73	3 36.6	37.57	38.50	139.42	2 40.34	141.2	6 42.18	3 43 10	0 44.03	3 44.9	5  45.8	7 46.79
38	44.71	I CONTRACTOR OF STREET		29	.03   29 9	5 30.8	8 31.8	0 32.7	2 33.6	4 34.50	35.4	36.40	37.33	3 38.2	39.17	140.09	9 41.0	1 41.93	3142.86	6 43.7	8 44.7	0 45.62
39	45.88			27	.85 28.7	7 29.7	0 30.6	2 31.5	4 32.4	6 33.3	34.30	35.22	36.15	37.07	37.99	38.9	1 39.83	3 40.75	5 41.68	142.6	0 43.5	2 44.44
40	47.06		TO BE																			5 43.27
41	48.23	The second																				7 42.09
42	49.41																					9 40.91
43	50.59			23	.15 24.0	7 25.0	0 25.9	2 26 8	4 27.7	6 28.6	8 29.60	30.42	2 31.48	5 32.3	7 33.25	34.2	1 35.1	3 36.0	5 36.9	3 37.9	01 38.8	32 39.74
44	51.76																					4 38.56
45	52.94																					6 37.38
46	54.12																					29136.21
47	1 00.00	The second second second second second																				1 35.03
48	56.47																					3 33.85
49	57.65			16	.09 17.0	1 17.9	4 18.8	6 19.7	8 20.7	0 21.6	2 22.5	4 23.46	3 24.39	9 25.3	1 26 2	3 27.1	5 28.0	7 28.9	9 29.9	2 30.8	4 31.	76 32.68
50	58.82	A CONTRACTOR		100 ES		1		1	HARM	100	1	1000	10000		12000		1	1	1	1	1	

#### Lancashire and the Price of Cotton.

The critical situation in the Lancashire cotton trade has been brought forcibly to the attention of the country by the agitation for a board of control to prevent over-production of yarn or selling below cost; by the conference of employ-

The main point of the problem, as prices of American cotton which is viewed by the industry itself, seems the basis of complaint. to have been most effectively expressed by a leader of the Manchesterially lower prices for

Little hope is expressed that ma-

ture unless new supplies are developed. Continuing these ideas with the complaint that the Lancashire industry is slowly being strangled for lack of cheap cotton, it is easy to understand the arguments that the only cure for the current state of the cotton trade is "an adequate supply of cotton at a reasonable price" and that this supply should be created within the Empire, where it is claimed there are "unlimited areas of good cotton land."

Not everyone will agree with the implication that scarcity and high price of raw cotton are solely responsible for the present unsatisfactory conditions in Lancashire textile centers. Some point to the fact that Continental mills are operating at conseils and are havily and ating at capacity and are busily un-derselling the Lancashire products, notably in Scandinavia and Near Eastern markets. Others say that British costs of conversion are un-duly high, and that overseas demand is definitely less than it was in 1913, due to various causes, including tariff changes, newly created com-peting industries, and reduced buying power.

The answer to these points is made quite simply by those who maintain that dear cotton is their only difficulty. They admit that French, Belgian, and other Continental mills are busy, practically to full capacity; and that British products are faring badly in com-petition in various European mar-It is argued, however, kets. It is argued, however, that the important markets for Lanca-shire are not in Europe, but over-seas, in India, the Far East, and Latin-America. There the Conti-nental mills are not selling to any large extent, and since they already are working close to capacity, they would not be able to supply much if any of increased demands which might come from non-European markets. On the other hand, anything like normal volume of buying from those quarters would increase the scale of operations in Lanca-shire to such an extent that costs of conversion would be relatively lower. Under those conditions Brit-ish goods might even be able to secure a share of the business in some of the Continental markets, where the competition is now too All this, of course, is based on the assumption that a lower price for raw coton would allow the Lancashire mill to offer prices on finished goods at levels which would attract much more active buying.

It is perhaps a fair question whether a price for American raw cotton much below anything which is now to be expected would be re-flected in appreciably lower prices on finished goods as sold to the ultimate consumer. After all, it is pressed by a leader of the Manches- terially lower prices for cotton will the amount of British cotton goods ter Chamber of Commerce, who said, be seen during the next 12 months, which actual users are able to buy in opposing the idea of a board of owing to the relatively small crop that determines overseas orders for the country by the agitation for a in opposing the idea of a board of owing to the relatively small crop that determines overseas orders for board of control to prevent overpoduction of yarn or selling below pression in the cotton industry is fact, the extreme view is that large there are a good many who hold the cost; by the conference of employ—the scarcity and dearness of raw crops in the United States are a opinion that actual users are not ers and operatives called by the cotton." Because of this fact, "it is thing of the past, at least until the prepared to buy larger quantities at Lord Mayor of Manchester to conimpossible to produce yarn or cotholl weevil problem is fully solved, any price. Whichever line of reasider possible steps for betterment ton cloths at prices which the chief and that the only escape from soning is followed, therefore, the of the trade; and by the discussion customers of Lancashire, who are chronic shortage and resulting conclusion reached is not particular in the Imperial Economic Conferto be found in India and the Near dearness of raw cotton is to develop larly cheering as to the winter outence regarding the importance of and Far East, can afford to pay alternative sources of supply. Even look for Lancashire or the immesources of cotton supply within the under post-war economic conditions." In every case it is the high possible necessity in the near futher United States.

## Forty Years of Faithful Service



Here is a Ladew Flintstone that has been on the job forty years. Through all this long life of service it has carried the load in a textile mill where uninterrupted performance is a great consideration.

Edward R. Ladew Company, Inc., has been making leather belting since 1835, and today the name "Ladew" stands in the very front rank among the successful belting manufacturers of the world. This position, won by adherence to high business ideals which have placed the user's satisfaction first at all times, is being maintained in every department of the Ladew organization.

Complete Stocks Carried at J. M. Tull Rubber & Supply Co., Atlanta, Ga.

## Edward R. Ladew Co.

INCORPORATED

29 Murray Street, New York

#### TEXTILE SALESMEN

WM. W. MOORE. (Allis-Chalmers Mfg. Co.)

Wm. W. Moore, or Bill Moore, as he graduated in one of the engihe is usually called, was born at Cincinnati, Ohio, in February, 1896,



WM. W. MOORE.

but has spent most of his life in

Georgia. He attended Georgia Tech, where ern mills.

at neering departments.
396, During the World War he was
First Lieutenant in the 307th Engiactive neers and saw France with the 82nd Division and made a very creditable record.

Returning to this country, he was employed for awhile by Lockwood, Greene & Co. as resident engineer, but about four years ago joined the sales organization of the Allis-Chalmers Manufacturing Company, of Milwaukee, Wis., with his head-quarters at Atlanta, but devoting

most of his time to the Carolinas. When it was decided to open a Charlotte office he was placed in charge of same and because of his personality and salesmanship has been very successful.

Bill married an Atlanta girl and has one child. He is a member of the Charlotte Kiwanis Club and the Charlotte Country Club. He is rated as above the average among golf players.

The Allis-Chalmers Manufacturing Company is manufacturers of electric motors and steam turbines and do a large business with South-

GEORGE B. SNOW. (Atlanta Brush Co.)

Geo. B. Snow may wear his hat to garrded by the mill men. keep from showing his bald head but he is one of the best salesmen



GEORGE B. SNOW.

on the road and there is certainly none that visit the textile mills of the South who are more highly re-

George was born at Carrollton, Ga., and lived upon a farm until he was twenty-one years of age and then tried running a small country

He later found a job as brakeman on a railroad train but he got put off, out in the woods, one day when he was dead-heading without his pass, so he quit the railroad and went into the transfer business in Atlanta.

When the D. D. Felton Brush Company, now the Atlanta Brush Company, was located in Atlanta about ten years ago, George got a job with them and proved to have such a measure of salesmanship that although their business has shown a remarkable growth he has been able to handle their sales successfully.

Because he was more than salesman, George has, from time to time, been able to devise many brushes that have been added to the Atlanta Brush Company line and he has established their brushes in industries beside the textile industry.

Clark's Directory of Southern Textile Mills Contains Complete data relative to Southern Mills ocket Size Revised Twice Yearly Pocket Size

> CLARK PUBLISHING CO. CHARLOTTE, N. C



## PENETRATION

HERE is much difference between the power possessed by various liquids to penetrate solids. As an illustration; accurately measure a drop of one liquid and a drop of another. Place each drop upon a piece of paper of the same quality, and see to it that the paper lies perfectly level. It is thoroughly possible for one of these liquids to spread itself over an area several times larger than that over which the other will spread itself. While the test thus described is one of common practice it is not necessarily a certain test for penetration, for it may be possible that the paper used contains more or less of a filler or gloss and that property which permits a liquid to spread itself over the largest non-poreous area is not necessarily the property which permits it to penetrate interiors, although there is some relation between the properties.

Let us take the process of decolorization of oils by filteration. In this process the oil is passed through columns of filtering material, usually Fuller's Earth or bone-black. That oil which penetrates best filters the easiest and with the least cost. But such an oil would cut a sorry figure if used in a textile softener, because it also parts very readily with its coloring matter which is fine carbon pigment in mineral oil and blood pigment in animal oils.

An easy filtering oil possesses the power to penetrate in itself, but it does not possess the power to carry anything with it in penetrating action.

The tendency of the yarn is to filter or strain, from the liquids mixed with the size, the solid ingredients in the size and leave them deposited on the surface. This is what causes all of the trouble in the conditioning process. It causes the warp to become brittle or pipy and break on the beam, and is the cause of not carrying the size through to the cloth.

The imparting to an oil the property of penctration is not a problem which is identical to the manufacture of a conditioner, for cotten goods, but enters more or less into all of the industries.

All case-hardened metal must be penetrated by carbon gases; wool must be penetrated by an oil in preparing it for the cards; leather must be penetrated by an oil in the currying process; silk must be penetrated by an oil or soap in the process of conditioning. But each of these processes of penetration carry with them some peculiar requirement identical to itself and to no other.

For instance with the preparation of wool, the oil must be a ready solvent for the natural greases of the wool, a corrector of electricity and scour readily. With leather the oil must penetrate into every crevice of the hide, lubricating the fibres and carrying with it a certain amount of solid matter such as stearine. Products which are in themselves oils at certain temperatures and which are readily soluable in oil in certain proportions.

But when it comes to conditioning cotton warps, the conditioner must carry through to the interior of the yarn, in a uniform manner, the starch, etc., which compose the size. It must not release the size by a filteration process and permit it to remain on the surface, neither should it release the size and permit it to ooze to the surface of the warp when the warp is under the tensile strength to which it is subjected on the loom.

Thus it may be comprehended that in a Warp Conditioner property of penetration plus the property of dissolving the size are desirable characteristics. And we might appropriately add, plus the property of staying put.

Thus it will be appreciated that the manufacture of oleagenous products for one industry is more or less related to the manufacture of those products for all industries and HOUGHTON'S WARP CONDITIONER is the final result of many years' experience in the manufacture of oils possessing soluable and penetrating proportions.

#### E. F. HOUGHTON & COMPANY

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Oils and Leathers for the Textile Industry

Oils and Leathers for the Textile Industry



### **CLOTH PRESS**

## HEAVY DUTY NO. 258 PLATEN 50 x 36

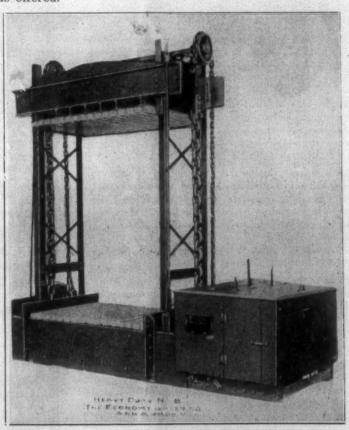
This Economy Heavy Duty Cloth Press, No. 258, has a platen 50 x 36 inches. Platen travel of 72 inches. Equipped complete with Direct Connected Electric Motor, capable of pulling up to 40 H. P. at highest torque.

Will develop pressure equal to toggle or hydraulic pressure rated at 150 tons pressure. Ample for Export or domestic baling for most mills or for compressing ginghams, etc.

Requires only about one minute of actual motor operation to make a Bale of Cloth.

The press is very fast, platen travel approximately eight seconds to the foot, up or down.

The most efficient Cloth Press on the market, barring none, sold at anywhere near the price at which the press is offered.



The press is right. The price is right.

One of the many advantages of this Economy Heavy Duty Cloth Press No. 258 is the fact that it maintains its maximum pressure indefinitely, until released. Another feature is the unlimited compressing platen stroke. In other words, platen will travel as low as is necessary to completely compress the bale, regardless of the third dimension, as the platen can go down to within four inches of compressing platform. Another feature is that the press is entirely self contained, requiring no cement foundation, pit, over head counter-shafting, chain con-

Chains are hand forged Swedish steel. Will stand over 50 per cent over load, a greater load than can be exerted by the motor pulling up to 40 H. P. torque.

Twenty-five years of experience in building Baling Presses, built on the same principle, have been concentrated on the development of this Cloth Press No. 258. For particulars write

#### ECONOMY BALER CO.

Dept. S. T.

Ann Arbor, Mich.

### President Hammett Discusses Mill

#### Situation

established, and that the government cease to issue numerous cot- speculator, and without regard to ton crop estimates, James D. Ham- the interest of the producer or conmett, of Anderson, delivered his an- sumer." nual address as president to the South Carolina Cotton Manufactur- trol the factors who cause the vioers' Association, in session at Spar- lent fluctuations that do such viotanburg, last week.

Mr. Hammett also discussed taxes, toward law enforcement and other

has been through a period of reathey are official and confine itself to sonable prosperity followed by a the ginners' reports as issued at period of unpleasant depression, the present, together with the consumpperiod of depression continuing tion and stock figures as at present, through the present date of annual and make no estimate, or guess, of meeting with manufacturers unable the yield of cotton until December, to determine on a proper policy to when a reasonably accurate esti-pursue. We, as Southern manufac- mate may be made. We suggest to turers, cannot assume that thirty the exchanges, in a spirit that is cent cotton is too high when the entirely friendly, that daily fluctua-farm labor is compared with the tions be confined to more reason-labor in industrial centers of other able limits, and that instead of a sections of the country, and have 200-point maximum fluctuation, no disposition to have our friends materially lower figure be the maxiof the farms furnish their labor at mum, with, perhaps, a weekly maxunremunerative prices, while labor in other lines is so profitably and

country, but rather to speak from a comparative standpoint, and to insist that the public must realize that cotton is no more to rule at starvation wages for those who produce it, and that the product of cotton must be advanced to a point where producer and manufacturer will receive a reasonable return for their labor and their investment. With more half the population of country engaged in agricultural pursuits, it is hardly to be considered that manufacturers and other commercial interests, together with labor in industrial centers, can be permanently prosperous without the farmer of the South, the West, without the North and the East sharing in that prosperity. When the farmer producers more of a commodity than the world can consume the price will naturally be a low one, but where the commodity produced is barely enough to supply the needs of the world the price naturally must be on a high level. If that be an economic truth the world must adjust itself to the idea that cotton will continue on a level that, compared with prices of a few years ago, is high, because the commodity has not been produced in sufficient quantity to burden the world, though the acreage seeded to cotton was one of the greatest in world

#### Cotton Exchanges.

Suggesting that the limit of daily however, the violent and constant fluctuations in the cotton market be fluctuations we have experienced in reduced, and that a weekly limit be recent years, and cannot but feel recent years, and cannot but feel them only in the interest of the

"Naturally it is difficult to conlence to prices, and that to such a large extent demoralizes the busithe 48-hour law, the public attitude ness of the producer, the manufactoward law enforcement and other turer, the converter, or finisher, and interesting questions in his address, the merchant. Your president would which, in the main, follows:

suggest that our national govern-"Since the last annual meeting of ment cease issuing so many esti-your association the textile industry mates that carry weight because has been through a period of rea- they are official and confine itself to imum added. We believe the sug-gested changes on the part of the pleasantly employed. government and the exchanges
"It is not my purpose to enter into
a discussion of the wage levels as ducer, and consumer of cotton, and
they exist in various sections of the in the end in the interest of the exchanges.

#### Textxile Engineering.

"It would be far from the thought of any Southern manufacturer to detract in any way from the glory and credit for success that rightfully belongs to the native superintendent, overseers and section men of our mills. They have, through loyalty, intelligence, and diligence met the situation as it has existed in a manly, straightforward way and mastered the difficulties of manu-facturing as these difficulties were presented to them. So long as we continue the manufacture of the less difficult weaves of plain cloths untrained man will continue ctive and valuable. We do feel, effective and valuable. however, that competition, which grows more keen as the years pass, add to the fact that the finer and more difficult weaves are growing in importance, demands that more attention be paid to the training of men who may be able to master the more intricate difficulties in a more prompt and economical way than would be possible with the untrain-

"Assuming this to be true, I strongly recommend that more interest be taken in textile engineering, and that we seek the oppor-tunity to apply our experience to-wards making the textile engineering course in some of our colleges more effective. With the textile industry "We believe the proper conduct occupying such a conspicuous place of business, as well as agriculture, in the industrial and social life of demands that exchanges where the State we feel it but just and in commodities may be bought and order that a department in one of sold with reasonable safety should the State colleges be made to truly be continued, and their usefulness represent the great industry which to the public broadened. We resent, we represent, and to that end we

tile department of the college because the course is considered an easy one, but rather wish to encour-age boys to enter that department of the college life who have an ambition to successfully operate the mills, and who evidence a desire for proper and full information in the work they choose as their life work. Neither do we encourage every boy who enters the textile department to feel that with a diploma his competency is established. Rather we should encourage the idea that the diploma represents his theoretical knowledge, and that his practical knowledge must be attained by con-tact with the mill work, and then the measure of his success will depend on the diligence displayed to-gether with the quality of leadershipp he develops.

"Quality rather than quantity in men is much desired. We sincerely hope much good will come from the consultation with the Clemson authorities, and that they be continued if agreeable to the college authorities, and if the college authorities really desire our co-operation with improving the textile department of the college.

is my purpose only to say that our pear to improve. are becoming burdensome, with the disposition in many quarters to make them more burden-some. We, as an industry, strongly favor education, and good roads, two of the leading issues before the State, but we do not feel that everything said in the name of education have been happy and prosperous, or good roads should be accepted, with life and property safe to those as really in the true interest of these two great questions without giving the subject mature deliberation and without giving the subject mature deliberation and without great questions. tions must reflect orr any that it be not the grammar school that must suffer. We would not be understood as being other than intensely inter-ested and friendly to the cause of education and good roads, but, frankly, advise against a policy that

data taxation has great opportunities to we may be sure an element of the do lasting harm to the interests of population will take advantage of all kinds falling under its provisions our indifference and assume to igalready located in the State, and will nore other provisions of this law have a tendency to discourage pro-posed industries entering the State. While the rate at present is not very

have the question up with the au-something in the world is most pro-thorities of Clemson College. We do nounced. While indisposed to attack not wish boys entered into the tex- the principles of an income tax, it the principles of an income tax, it cannot be overlooked that a tax on the industry of the individual or corporation is the result of an income tax, and a premium is placed on thriftlessness by the State. The income tax by the State is excessive as compared to neighboring States, and should be changed so as not to penalize one for living in the State. Obedience to Authority.

"We, as business men, as well as individuals, cannot view with complacency a disposition that is evident in the State and in the home to resent the curtailment of the so-called personal liberty of the indi-Minimizing respect for constituted authority is causing uneasiness in the minds of vast num-bers of the best thinking men and women of this country, and we as representatives of one of the greatest industries of the country cannot avoid assuming our proper before society in establishing a proper regard for the moral and material welfare of the people as a whole. The World War is charged with much of the feeling of discontent, but we must come to realize the war is in the past, and yet conditions as to respect for the au-Taxes. thority of those chosen to assume "Your committee will give you a authority and respect for the orfull report as to their activities. It ganic law of the land does not ap-

"There are many evidences of disregard for authority, and among them a disregard for the constitution of the United States. The constitution was written by men of great wisdom and under its provi sions the people of this republic possibility of running the expense of the land to those whose diligence, account of the State to such prointelligence and economy has perportions as to seriously check the mitted the accumulation of propdevelopment of the schools and the erty. If the wild and unreasonable roads. We favor proper roads, eco- are to be permitted to destroy the nomically built, and while favoring bedrock foundation of our happithe higher institutions of learning, ness, the lives and property of men and bespeaking for them reasonable and women will no longer be safe, support, we urge particular care and we will experience a period of and attention be given the grammar anarchy that will spell disaster to schools, and if financial considerathe material, moral and spiritual the material, moral and welfare of all the people.

"To my mind, it is incumbent on us as business men representing large material interests to insist on a proper regard for constituted authority, and to lend our assistance in furthering that respect which will safeguard the interests we repfrankly, advise against a policy that in Turker may prove to be burdensome, and will safeguard the interests we repcool the ardor of many friends of resent, and at the same time insure these worthy causes. In other words safety to the moral well being of do not ride a good horse to death on our people. Certain amendments to the first day of the journey. ne present sales tax at its presmany good people, and all the ent rate is not particularly burden vicious people, and yet if we open some, though questionable as to its the door by ignoring the organic law justice. We feel this principle of of the land in one of its provision taxation has great opportunities. nore other provisions of this law that are dear to us and necessary to our material as well as moral

harmful there is no assurance the rate will continue as at present.

"The income tax is an annoying and burdensome tax and works legitimate way to educate the peogreat hardship on the individual or corporation whose disposition to do

"Engislative Committee.

"This committee labored not in vain, and managed in a perfectly legitimate way to educate the peogreat hardship on the individual or corporation whose disposition to do

(Continued on Page 28)

## Douglas Crown Starch

evenly penetrates and gives a smooth pliable finish



A thin boiling starch—absolutely uniform and equally as pure from foreign particles as the edible starch used in the

In addition to being manufactured by our special process, Douglas Crown Starch is finally bolted through silk in order to produce a finished starch absolutely uniform. The result is the most perfect working quality starch—a better starch cannot be made.

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## Healds and Their Application

owing to the material being so elas-

big A peg stops the snatchbar from get- hand side.

in the center. Later the cross- business in Lancashire. The var-looped healds came into use, and are nishing machines at present in use still employed in India on native are also exceedingly effective mahandlooms. Of course, in this style chines, and coupled with the standthe warp threads are held fast in ardized methods of stove drying enthe crossing of top and bottom loop, able healds to be beautifully finishso every six inches or so the weaver ed, smooth and glossy for good determination of suitable heald is what is known as copal varnish,
has to slacken the healds to take up gaiting and the eye hard set for yarns to employ for various setts, which consists of melted copal gum
the cloth. The fly shuttle loom, lasting. Healds when finished are and a reasonable basis is the actual mixed with boiled linseed oil and
shuttle hoves required healds with found that the thread is absolutely According to the Taytila Manufac. healds were first made from worsted varnish. At the bottom of these cotton yarns equals V count X 1 afterwards on half self-acting ma- rated, one lying at the front of the There are a double knot by hand, and healds the two threads are sepa- over 26.1.

There are a double knot was tied by hand on the the cotton was tied by hand on the there are a double knot was tied by hand on the there are a double knot was tied by hand on the the cotton was tied by hand on the tied to the cotton was tied by hand on the tied to the cotton was tied by hand on the tied to the cotton was tied by hand on the tied to the cotton was tied by hand on the tied to the cotton was tied by hand on the tied to the cotton was tied by hand on the tied to the cotton was tied by hand on the tied to the cotton was tied by hand on the tied to the cotton was tied by hand on the tied to the cotton was ti center pin of the machine and the threads are on the same side of the worsted then hooked on to the stave, which causes the natural braiding needle. Worsted cannot be position of the eye to be at an angle fastened unless two knots are tied, of 45 degrees. This slight angle helps in weaving, as the space occutic, nor will worsted take varnish pied by the eye is thereby reduced. satisfactorily.

The way I define this angle is to say improvement was that the front portion of the eye made when a man named Spedding, at the right-hand. Special healds in conjunction with Bowlas, a are now being made to meet the re-Stockport engineer, invented the quirements of the automatic drawautomatic noozed heald machine, ing-in machine made by Barber and This machine can knif healds to Colman, Ltd., which require the pattern by means of a dobby ar- angle the opposite way, viz., the rangement worked by lags and pegs. front portion of the eye at the left-

above by two. It is found by numerous actual examples that healds are frequently made in which the whole space is occupied by the yarn, thus allowing no estimated space for the warp, and it might, I think, be taken as a maxim that twice the diameter of the actual heald yarn may be employed for weaves which healds straight whilst he is draw-require healds of as thick heald ing-in by means of his drawing yarn as possible to be conveniently employed. Of course you will unthe derstand in this procedure no ac- the warp is thereby twisted out of a the count is taken of the extra width of straight line. This fault can be eft- the heald at the eye. The above is avoided by great care in the process for weaving fairly strong grey twist.

The earliest known healds were ting hold, and prevents the eye from simply a series of loops which carbeing formed. This machine is a in the manufacture of healds, the twist, some allowance must be made ried all the odd threads all set at wonderful piece of mechanism in its yarn is always Egyptian, and as a for weaving space. There is really the bottom. These loops made both method of tying the knot to form general rule the 40s, 50s and 60s are no fixed rule in this matter of thick-top and bottom shed alternately, the eye of the heald, and it is the carded quality, and 70s and finer, ness of heald yarn, as the condition even warp threads being stationary backbone of the large heald-making combed quality. It is always dou- of different sheds apparently affects combed quality. It is always dou- of different sheds apparently affects bled twice, the preparation being of the question as regards gaiting or 4, 5 or 6 ply, and three or four of lasting. Also big changes in the these plies are put together in the weather make a difference, a very conveyor of the other parts, and dries off in the drying stoves. For foreign markets paint is applied to the eyes only. These healds are for weaving coarse twist, and require a very hard eye. The paint dries harder than varnish, hence its use

for this purpose.
Noozed healds require a lot of skill and care in all their processes, or faults will creep in. Twisting is one fault fairly prevaalent, and by this I mean the eye is not at its proper angle, but is twisted round to the back. The drawerin gets the rods, but when these rods are withdrawn the heald twists round, and (Continued on Page 32)

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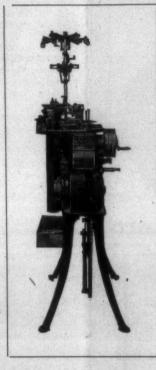
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## Knit Goods

## Artificial Silk And Its Possibilities

(By Bertrand R. Clarke, Vice-President Tubize Artificial Silk Company of America, before National Association of Cotton Manufacturers.)

New ideas in trade invariably Switzerland. At first they arouse special interest. Chemistry, the magician of the present day, has developed a textile yarn called "artificial silk," which may briefly be defined as a yarn of high lustre, durability, and strength, composed of many filaments manufactured of many filaments manufactured from chemically treated vegetable fibres, and resembling real silk in appearance, feel, and adaptability. While the first artificial silk was produced about thirty years ago in an effort to stimulate the product of the silk worm, it was more of a curiosity than anything else, and lacked many of the fundamental elements essential to commercial success. It was simply gun cotton softened by solvents and spun into inflammable. Its first introduction into fabric was met with suspicion by the manufacturer and danger to the public-so much so, that laws were passed forbidding its manufac- by Old Father Time.
ture and sale. Chemistry was not Contrast, if you please, the age of idle, however, and soon a method the silk industry from its establishwas discovered whereby all attendment in China thousands of years ant danger was eliminated, and the before the Christian Era. Likewise,

manufacturer, however, are certain features which should be thoroughprime consideration. As an exam—means least, it is produced at home, ple, yarns made by different meth—by our own people, creating beautiods will react in entirely different ful garments and fabrics within the ways in the dye bath. Yarns produced from cotton as a base have buying public.

The knitting trades accepted arti-

to his personal needs. These silky, creamy, white yarns of ers, neckwear, underwear, and the high lustre were described in the like, has been the largest user. The early Trade Journals as represent-hosiery trade follows, and then the ing the latest activities of chemical weaver of broad goods. The cotton experts in France, Belgium, and industry ranks well on the list, but

viewed as a curiosity and were passed around the trade with laughter. Experiments were made, however, by knitters and weavers of ribbons and broad silks. It is frankly admitted that the first efforts were far from successful, and artificial silk left much to be desired. It was lustrous, to be sure, but was lacking in strength, dyéd unevenly, was not very uniform in size, and was harsh and brittle. Today, it is lustrous or soft in tone, according to requirements; its tensile strength is from 10 to 60 per cent greater than the best of warp cotton; it dyes evenly and will absorb any shade of the rainbow; it is very uniform in size, is soft and warm to the touch. threads, coarse, uneven, and highly It comes in skeins of many thousands of yards, and can be wound in any form, or used in the looms as either warp or filling; it is durable and lasting, apparently unaffected by Old Father Time, Contrast, if you please, the age of

yarn made even more adaptable to compare the development of wool the textile trade; today, its consist- and worsted. Of almost equal age ently uniform performance and its and antiquity, are the linen and cotpopularity in the trade have become ton industries. Against these anso firmly fixed that it is regarded by cient and wonderful arts compare many as the most versatile textile the new "textile wonder" and realize yarns in the world.

Variations of the original methods istry has created a product which and process have been introduced only last year was destined to surby each newcomer in the field, but pass in volume, by a wide margin, the resulting yarns are all fairly its original antecedent—silk. The similar in appearance, even though answer is found in the fact that present-day yarn is produced from artificial silk is so adaptable that it wood fibre as well as cotton. Inher- can be used in countless ways, ent in the yarn of each individual where the price of real silk makes it prohibitive. Other factors which have contributed toward its growth features which should be thorough—have contributed toward its growth ly understood by the weaver or are its stability in market price and other producer of finished materials its dependability in the hands of in order to obtain the best results, manufacturers. It can be used in and price should never be the first combination with real silk, as it requisite in its purchase. Suitability were, "To paint the lily," because of for results desired should be the its life and snap. Last, but by no prime consideration. As an exam—means least, it is produced at home, the verne made by different meth—by our own people creating beauti-

greater tensile strength than those The knitting trades accepted arti-produced by another process, using ficial silk yarns rapidly. Hosiery a different vegetable fibre. I will men first used it in combination not attempt to analyze the various with cotton as a plate; then under-properties of different yarns and wear and knitted cloth manufactur-qualities of thread, since they pre-sent problems to be solved by each acted as pioneers in the early days individual manufacturer, according soon found they were giving their dividual manufacturer, according soon found they were giving their customers something entirely new, Its phenomenal spread and growth and that it was not substitution but an be easily visualized from the embellishment that resulted from and char it was not substitution but can be easily visualized from the embellishment that resulted from fact that it is only a matter of a its use. In looking over figures of decade since the first small packages consumption, year by year, in so far of artificial silk were imported to as they are available, it is evident this country by one of our promitate the knitting trade, in which is nent mercantile banking houses. included knitted piece goods, sweat-

Artificial silk is so comparatively new a textile, and its growth has been so rapid that manufacturers of yarn have been unable to keep pace with the development of new uses for the product. You gentlemen of the National Association are far more competent to create new ideas than we are. You have your own trade to develop and you are constantly on the alert to keep abreast of the times. We cannot create for you, but we can help you to create by assisting with every means in our power and by helping to solve the problems you wish simplified. We are only too glad to work with you, and to feel that we are a part of your various organizations, cause we can supply you with a part of the raw material from which you work; and I am quite sure that every manufacturer of artificial silk yarn in the United States is just as willing as my company is to give you the results and solutions of various problems which we have encountered in the trade. Manufacturers of cotton linings for dresses, suits and overcoats, for example, are just beginning to utilize artificial silk in decided quantities. The results obtained in the form of satins with cotton backs, and also in taffetas and other like materials give excellent wear, are beautifully lustrous, and are, of course, reasonable in price. Sport satin, produced from mercerized cotton and artifi-cial silk, was a most remarkable material and one which gained popular favor "over night." It is coming back, I hear, chiefly in those materials produced from the finest counts of both cotton and artificial

the textile industry. This is partly covered by reference to branches of trade in which artificial silk is now being used as an auxiliary and supplement to plain and mercerized tile or fabric, it will wear and give cotton yarns. The ribbon trade is a striking example. This trade now yarns of different manufactures uses great quantities of artificial silk. Laces, curtains, braids, upholstery fabrics, millinery cloths, necktie materials, glove cloth, metals, shoe coverings all represent als, shoe coverings, all represent classes of textiles in which cotton yarns have long stood as important manufacturing factors. Now the field is proving it can be further advanced by the introduction of artificial silk yarns which embellish and add to the value of the finished product, and it seems that the solution on the part of every manufac-turer, in this process of evolution in textile usages, would be for cotton yarn spinners, and weavers of cotton goods, to consult the manufacturers of artificial silk yarns and to work with them in developing their own products, just as the silk indus-

its field has not been so diversified tion fabrics have taken decided as it is bound to become, when ex-steps toward better and more profit-periments and methods for utilizing able business. If this be true, and our yarn are better understood.

I believe it is, the course for cotton yarn users seems already clearly charted. An instance of another new field just beginning to open up for artificial silk is disclosed by braiders and covered wire manufacturers. Its lustrous sheen and clear, deep coloring make it a perfect covering for lamp cords, telephone wires and similar materials. As an insulator and covering for fine magnet wires, it has no superior when properly treated and applied.

Its development in the shirting trade is a matter familiar to you all, and the number of cotton cloth mills now using artificial silk to produce fancy shirtings, shirtwaist fabrics, and novelty dress fabrics is exceed-ingly small as compared to the total number of mills making these goods. There is no barrier to prevent your making use of artificial silk in a host of ways not yet attempted. Those who have gone farthest in their experiments often become enthusiastic enough to say that it is like true gold working into any textile combination, just as gold, the "King of Metals," will work with any alloy. Wherever you introduce a thread of artificial silk into any fabric, the fabric profits; it adds a touch of life and elevates the standard from the commonplace. Such a hand-maiden to the textile trade cannot help but gain recognition in your field and it is significant that artificial silk, finding its way into the textile trade as a direct substitute for silk, has now won a place of its own where it is used in every variety of combination with every known basic material to create mar velous fabrics impossible of achievement otherwise.

There seems to be a general im-ression that artificial silk will not You are undoubtedly most interpression that artificial silk will not ested in knowing whether artificial stand up when wet or during a silk yarns can be profitably incorporated into your own divisions of product loses tensile strength while wet, but the same strength immediately returns when dry. If properly washed, with no more care than should be given to any delicate texboth dry and wet than others. I know of no better way to answer the man who says artificial silk will not do this and will not do that, when wet, than to say that my own com-pany's product is today being extensively used in the manufacture of women's delicate underwear, without adulteration by any other tex-tile; and that it is also being used in combination with other yarns by one of the largest umbrella cover-ing manufacturers in the United

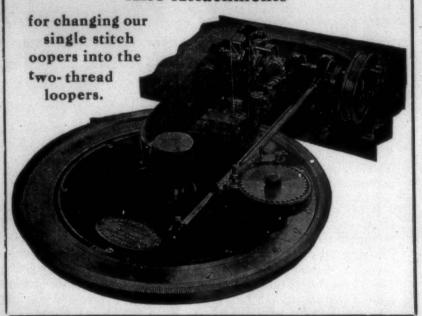
If you will pause to consider for a moment, you will realize that probably all of you gentlemen are clothed with every one of the known basic matter of cotton, wool, ufacturers in the United States today who are not making some use
of artificial silk yarn. Those of you
gentlemen who have already experimented in the use of our product
will, I think, agree with me that
a component part of most of your
timen, silk, and leather. I am willing
to wager that 90 per cent of you also
wear artificial silk in some article
of apparel. In a short time the daily
attire of not 90 per cent of you, but
of all of you, will contain artificial
will, I think, agree with me that
a component part of most of your
attire.

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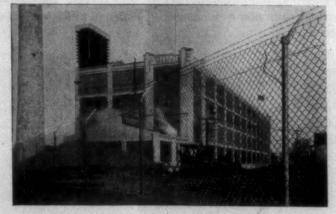
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(Complete stock of parts at all times cerried by northern representative)

manufacturer has to deal.

In the process of weaving, the wear and tear on the warp by the pulling action of the healds on the one hand and the wearing action of the shuttle passing across the of threads, on the other, is much greater than in the case of the weft, "n and sizing is introduced with the view of increasing the strength of The process of sizing is very old, since the ancient Oriental nations dressed their warps with rice water. The method first adopted in Lancashire was simply to pass the threads of warp through some adhesive matter such as flour paste. when, on drying, the extra strength required for the warp to pass through the loom was obtained; but a harsh feel was imparted to the cloth. Later, tallow or oil was added to the flour or starch paste, to give the desired softness, and this mixture is quite satisfactory as regards the manufacture of the fabric. But it was found that some kinds of size and modes of mixing made the woven fabric appear fuller and better, and thus there was and is ample scope for the skill and ingenuity of the sizer.

The problems which the manufacturer must solve are rather com-First, he must produce plicated. grey cloth of specified pattern and of a certain length, width and weight. Then the cloth must poswidth and sess an appearance and handle equal

to some standard.

Sometimes the problem is to make weight and appearance, with as lit-tle cotton as possible. The remaintle cotton as possible. The remainder of the weight, feel and general appearance of the fabric must then be supplied by the size, which under

Sizing materials may be divided

into four classes, namely:

Substances giving adhesive properties to the size. flour, sago, maize and rice starches, farina, soluble starch.

Materials used to give weight and body to the size and yarns. China, clay, magnesium sulphate or

(3) Oily or greasy matters used for softening the size and yarn.— Tallow, olive oil, glycerine, paraffin,

(4) Antiseptics.—Chloride of zinc, carbolic acid, formaldehyde.

In regard to the application of the size, the slasher has several advantages over the ball sizer, while on the other hand the advantages ball sizing over slashing are mainly restricted considerations Slashing in conjunction weighting. with the self-stopping beaming machine is a very finished operation in contrast with the clumsy business of ball sizing and the expensive beaming necessitated by it; but for certain classes of goods ball sizing is quite indispensable. Whenever a "pure" cloth is required, however, the superiority of the slashing machine is very apparent.

The sizing of cotton goods, as now and measuring is not sufficiently practiced, is one of the most un-recognized. Some imagine that a scientific processes with which the little more or less of this or that ingredient cannot make much difference in a large mixing, but this is quite wrong, for there is hardly any operation where correct and any operation where correct and careful weighing and measuring is greater importance. With regard to the nature of the

"mixing," everything depends on the class of work. For a "pure" cloth or for printing cloths, nothing more is required than flour or starch, and tallow. For printing cloths, chloride of zinc is not only unnecessary but would interfere with the oper-

ations of the printer.

The quality of the ingredients used in sizing is not sufficiently tainto account, and consideration is often only given to the price. This is not true economy.

The methods practiced by sizers are very variable, this being due to the absence of a reasonable system based upon a simple investigation of what will best fulfil the object in view. Such a system, of course, involves a knowledge of the properties of the different substances used.

In some otherwise modern works the process of sizing is still carried on in a very crude manner, and chemical substances and secret substances preparations are added to the size without any good reason. In the sizing of cloth intended for bleaching and dyeing, particular care should be taken in the selection of

sizing materials.

Much trouble to the bleacher and dyer is caused by magnesium chloride, zinc chloride and paraffin wax Magnesium chloride is a valuable addition in sizing yarn, as it is hygroscopic, and keeps the yarn in. good condition for the weaver, who has less breakage and consequently greater production. It is, hower, a most dangerous substance in that require to be singed. Zinc chloride is often added to sizing materials to prevent mildew. should be replaced by formaldehyde whenever cloth is to be singed to avoid the same trouble as when using magnesium chloride. Whenever zinc or magnesium is used in sizing its presence should be declared by the manufacturer and the goods could then be washed before singeing, or the singeing process should be omitted altogether. Paraffin wax is unsaponifiable, and is difficult to remove during bleaching.

Relatively few mills realize the lack of uniformity which attends the sizing process. Under the conditions imposed by the incompleteness of the average sizing equipment, uniformly good results impossible.

Suitable equipment, great cleanliness and careful control are absolutely essential to the production of uniform The size work. should be as clean as a kitchen, as preparing size uniformly, so far from being a crude operation, requires great cleanliness and careful attention to details. Considering how easily the consistency of starch either in its manufacture or in its nine is very apparent.

Use, is affected by slight chemical in the preparation of the mixing, or bacterial action, the degree of the importance of careful weighing cleanliness usually exercised in the

cistern room is insufficient. Any size box, all possibility of disturbance left in the cisterns will affect a sub-from cold size in the short branch sequent mixing. Cisterns and agita-pipe can be avoided. left in the cisterns will affect a sub-sequent mixing. Cisterns and agita-tors need frequent scraping, flushresults in the sizing process.

The dry starch should be stirred into water and strained through a sieve on its way to the boiling cis-The breakage of threads on the slasher due to the presence of chips, insoluble lumps and other foreign matter is thus avoided.

Rust spots and stains are generally due to insufficient cleaning of the cistern or its fittings. The chemical action of caked and putrifying size on a susceptible metal is rapid. Iron cisterns are a costly economy. Tinned or galvanized iron is better, but copper is the best.

Wood is largely used for cisterns. The shape of the cistern is usually wrong, the corners of the wooden cisterns making proper agitation impossible. Unless wooden cisterns are frequently renewed, the wood becomes impregnated with bacteria, which exert a thinning action on the mixings. Cisterns ought to be fitted with tight covers, as the difference in vicosity of the mixtures due to condensation or evaporation is appreciable, and may be sufficient to affect the weaving quality of a warp.

All cisterns ought to be fitted with efficient agitators. The usual two-paddle one-way agitator is defective as it revolves the size instead of as it revolves the size instead of thoroughly mixing it, with the re-sult that the starch paste is not homogeneous, but contains globules or lumps of starch. Sets of agitator arms moving in opposite directions give a mixture of uniform consistency, break up the lumps, bring every part of the mixture into contact with the maximum heat, and lessen the accumulation of cakes of size on any part of the cistern or agitator arms

The method of heating the mix-ture in the cistern is important as regards the uniformity of the results. Small jacketed cisterns constitute the only satisfactory arrangement for small plants.

Many mills have plenty of cis-terns and plenty of slashers but defective pipe connections. A small outlay for extra piping and valves, to connect every cistern with every slasher, would allow of any kind of mixing desired to be run on to any slasher. The piping ought to be of copper or brass, and of ample size. Iron piping means a run of rust

spots at some time or other.

It is practically impossible to size uniformity with a gravity system of conveyance from cisterns to size boxes. In any gravity system, the size has time to cool and gelatinize in some section of the piping. run of thinned size and before the drying chambers during stoppages, jelly lumps that blow out can be and better the room conditions. boiled up, they are likely to form The substitution of air for cylinhard spots on the yarn. A pumping der drying is an important factor in system avoids these troubles. No assisting uniform work. It is expumping system, however, is comtremely difficult to regulate the heat plete unless the piping admits of on cylinder dryers. Stoppages or constant circulation of the size from slow runs generally mean hard and the cisteres through the pipes past streaky sized places when cylinders again to the cisterns. Then the size threads when they are pulled apart is delivered at a uniform heat and at the least rods, difficulty in the vicosity. If a long curve dip is loom and an uneven feel in the given to the main pipes beside each (Continued on Page 26)

A useful arrangement of piping ing and cleansing to ensure uniform found in a few mills is one in which all size left in the size boxes at night can be pumped back to the cisterns, leaving the boxes empty to he flushed and cleaned, but in many mills no such arrangement is available, and the size is left in the boxes overnight. It would be a saving in weaving expense to throw this size away, as the skin that forms in contact with the air is useless. With a complete circulation and pumping arrangement for the whole piping system, the boxes and the cisterns can be flushed with hot water and steam, and cleaning made part of the routine operation of the sizing

> Size that is boned up to time is not efficient as freshly pre-Size that is boiled up a second pared size. Reboiling impairs the adhesiveness, a fact that doubtless explains the feeling of some operatives that letting size stand overnight makes it smoother in feel in the morning. Where size must be left overnight, mixing it in the morning with a freshly prepared and heavier mixing is the best ex-

> An important factor in uniform sizing is the height of the size in the box relative to the squeezing rollers. Regulation of this is generally left to the vigilance of the slasher attendant, but there should be an automatic float-feed which keeps the size at a practically con-stant level. In mills where there are no such devices, the size gets low in the box, and it is the custom to keep lowering the immersion roller instead of constantly running in more size. But it is not merely the depth of the immersion roller in the size that determines the amount of size taken up by the yarn, but also the dip of the squeezing rollers into the size.

> The weight and condition of the squeezing rollers also greatly influence the amount of size taken up by the yarn and the degree of penetration. Too careful attention to the condition and lapping of the cloth on the rollers cannot be given, streaks and badly-sized spots readily being caused by poor lapping.

The usual cylinder drying slashing has defects that have led to the adoption in France, and to some extent in England, of improved forms of air drying apparatus, utilizing modern principles of forced ventilation; and these developments are worthy of close investigation. Briefly, the new system is said give greater production, dry the yarn progressively, reduce the ten-sion to a minimum, retain the original roundness of the thread, largely this cold size sticks and has to be do away with the defect of baking blown out by steam, the result is a the ends, automatically cool the run of thinned size and before the drying chambers during stoppages,

the cisterns through the pipes past streaky sized places when cylinders the tap of each slasher and back are used, entailing damage to the

## Seaboard Air Line Railway

#### ANNOUNCES

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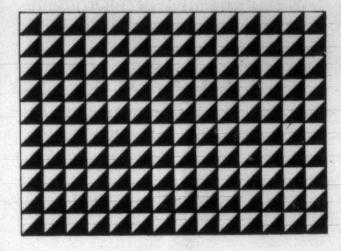
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the only ones benefited were their makers, they would soon wear themselves out and go off the market.

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#### Whitin Machine Works Buy Mill.

Boston. — According to notices posted in the plant of the Whitinsville, Mass., the plant has been sold to the Whitinsville Machine Works. Transfer will be made on or before April 1, next. The plant, which employs about 250 operatives, is engaged on the manufacture of sateens and sheetings.

The purchase price is understood to have been somewhat in excess of \$500,000. The transfer includes one large three-story mill and two smal-ler two-story buildings, besides a one-story building used as a picker building. There were included in the deal also the boarding house, which accomodates seventy, and about one hundred mill tenements, besides 400 acres of land, with wa-

The mills will go on a schedule of 40 hours a week until the transfer is effected. It is expected that the mill machinery and stock, which is not included in the sale, will be sold in bulk as opportunity offers.

#### Southern Spindle & Flyer Co. Has Fine Record.

From fifteen hundred square feet floor space in 1900 to fourteen thousand square feet in 1923; from a very small investment to a corporation with a capital of \$155,000; from one man and a helper to a force of seventy employees, is the story in a few words of the growth and development of the Southern Spindle & Flyer Company. When the South-Flyer Company. ern Spindle & Flyer Company first began business they room 30x50 feet. The occupied room 30x50 feet. Their machinery equipment consisted of but two machines. As the business grew they put in additional machinery. these quarters became too congested and crowded. Then it was that they doubled the size of the building to 30x100 feet.

As the business grew this build-g was supplemented by others until now they occupy over fourteen thousand square feet of floor space, they have just completed a building 50x120 feet of modern fireproof construction. With this new addition to their plant together with new machinery added, they have more than doubled their capacity, which places them in a position to give a quicker and more efficient service to their patrons.

The position occupied by the Southern Spindle & Flyer Company is unique in many respects. Organized for the purpose of meeting the demands of the Southern cotton mills, they have accomplished this purpose to a surprising degree. This company not only has the distincof being the first organized in the South for the repair of steel rolls, spindles and flyers of all kinds, picker lap pins, but it also enjoys the distinction of having been the first concern in the South to manufacture spindles, steel rolls, top rolls and flyer pressers and liftrods, and is the only concern in the South manufacturing them to-

The Southern Spindle & Flyer the buildings are occupied."

ompany specialize in the aligning The company asks that the alnd leveling of shafting, rearrang-leged erroneous assessment be cor-Company specialize in the aligning and leveling of shafting, rearrang-ing, overhauling and erecting, and moving spinning and card room machinery, employing in this depart- ment be refunded.

ment alone fifteen crews, and are recognized as the largest overhaulers in their special line in the country. William H. Monty, president, and his associate, W. H. Hutchins, vice-president and secretary, have brought about them as fine a type of mechanics as can be found in any organization. They have been trained in the plant for the skilled work they are doing. They are well edu-cated, making good wages and are good citizens

The Southern Spindle & Flyer Company is doing a wonderful work and the most modern equipment has been installed for expediting this work. They have electric welding machine for welding together steel iron bars, and an acetylene welding outfit used on parts that cannot be welded by the electric welding machine.

The Southern Spindle & Flyer Company is a concern that the mills can depend on in time of trouble, to go to their mills, hunt out the ills and weaknesses in the machinery, overcome these troubles, repair the defective parts, prolong the life of the machines and increase productions

#### Carolina Cotton Mills Appeal Against Tax Classification.

Richmond, Va-Whether or not machinery in its plant at Fieldale, Va., should be classed for taxation as capital invested in business or as real estate is the point at issue in a case pending in the Virginia Supreme Court of Appeals brought up from the Circuit Court of Henry county by the Carolina Cotton and Woolen Mills Company. The case was taken under advisement by the appellate court following argument which was heard last week. It may be several months before a decision is given.

It appears that although the company's machinery was included along with its plant when assess-ment of real estate was made at the machinery regular quintennial period in 1920. the examiner of records subsequent conceived the idea that the machinery should be assessed as capital invested in business, the upshot being that in 1922 machinery valued by bin at 1992 machinery valued by him at \$686,685 was reported as omitted capital for the two previous wears, and the company was assessed accordingly. In its petition filed in the Supreme Court, the company asserts similar machinery in other manufacturing plants in Henry county has been assessed only as real estate.

The petition recites further that the examiner of records had no authority to assess the machinery as omitted capital for 1920-1921. "That the machinery is real estate there can be no doubt," the petition goes "The evidence of on to say. nesses shows that the machinery assessed as capital is securely at-tached to the buildings in which it located and cannot be removed therefrom without serious damage to the buildings, and is intended to be and is a part of the buildings, essential to the purpose for which

rected and that additional money it has to pay by reason of the assess-

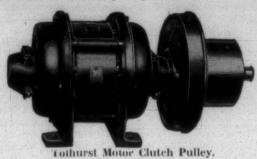
pulleys, made by the Tolhurst Ma-chine Works, Troy, N. Y., are prov-ing of much interest to textile mills. These friction clutch pulleys are

described by the manufacturers as

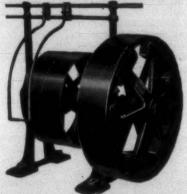
follows:
"The Tolhurst friction clutch pulley for countershaft drive is simple operation.

Tolhurst Friction Clutch Pulleys. tractor and countershaft belts. With the elimination of belt slippage, The new Tolhurst friction clutch belting is saved and reserve horsepower, used only during the starting period, is kept to the minimum.
"The Tolhurst extractors illus-

trated above are equipped with automatic safety guards. These guards positively prevent access to the basket while the extractor is in



in construction and easy to install rapid acceleration is easily obtained by a simple adjustment in the clutch itself. The



Tolhurst Counter Shaft Clutch Pulley.

time formerly taken by the operator "Guards may be interlocked posi-in nursing the belt onto the tight tively with power circuit so that the" pulley can be profitably used elsewhere. The clutch gradually applies the the load to the power system. It does gua away with belt-slip on both the ex- has

"Fitted with the Tolhurst clutch on your present extractors. The pulley a standard stock motor will clutch pulley replaces the driving start the extractor smoothly and without belt-slip or usual heavy inrush of current.

"The clutch is so proportioned to belt may be shifted directly from both motor and Extractor that not the loose to the tight pulley. The only may smaller motors be used, but complicated starting equipment and specially wound motors are unnecessary.

"Initial costs are low. Mainte-nance and fixed charges are reduced to the minimum, for should motor trouble develop, repair parts are easily, quickly and cheaply obtained—costly shutdowns are eliminated.

"The motor is conveniently started by push button located on the side brace of the extractor, operating a magnetic switch. This equipment may be replaced by a hand operated knife switch if desired.

"Clutch pulleys are furnished sep-

arate or with the motor and starting equipment, the latter consisting of a remote controlled and push butten operated magnetic switch.

"Guards may be interlocked posiextractor cannot be started until the guards are closed—nor the guards opened until the extractor has come to a full stop.

Washington.—The Antung factory of a large Japanese spinning company is planning a big increase in its waste Tussah yarn and Tussah noil output, and extensive additions to its plants and equipment are being carried out, according to a report from Consul William R. Langdon at Antung, China, to the textile division of the Bureau of Foreign and Domestic Commerce.

yards, respectively. The extension work is being undertaken by a local construction company at a cost of here in large quantities. \$115,000, which sum is being supplied by the head office of the com- "metis" have met with pany in Japan.

year and increased operations are colored jumpers or on knit garments planned for the early part of next will last till after this winter.

Japanese Spinning Firm to Enlarge year. Between 1,800 and 1,900 per-Antung Mill. sons will be employed in the enlarged factory.

#### Belgian Knitting Industry.

Brussels, Nov. 6.—The Belgian knitting industry has made considerable headway during the last few months. It is understood that the articles produced here on rotary machines and also on machines which are not quite so elaborate, give entire satisfaction.

In fact, the Belgian papers are full quarters of operatives will cover firms who are willing to take the areas of 4,752 and 3,564 square sole agency in various districts. Silk yards, respectively. The extension jumpers, golf coats and countries are full quarters of operatives will cover firms who are willing to take the yards, respectively. The extension jumpers, golf coats and countries work is heing undertaken by jumpers, golf coats and scarfs and even traveling tailors are produced

Mixed yarns, known here "metis," have met with a great fa-vor. Colored combinations have The work is expected to be com- been put on the market and practipleted and the new machinery in- cally all shades are worn. It is supstalled by the end of the present posed that the present fashion on

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## XTILE BULLE

#### Published Every Thursday by CLARK PUBLISHING COMPANY Offices: 39-41 S. Church St., Charlotte, N. C.

#### THURSDAY, NOVEMBER 15, 1923.

DAVID CLARK	Managing Editor
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#### Clark's Yarn Manufacturing Margin Tables.

either careless or inefficient in the cotton prices does not show enough matter of determining his yarn costs manufacturing margin to cover and in an advancing cotton market actual cost and yet many mills are he is apt to lose sight of the increased cost of waste and the in- they are able to at least break even. creased selling commissions. Referring to Clark's Weaving creased selling commissions.

the inefficient manager will assist ond column. all yarn manufacturers.

have with a great deal of labor and expense prepared Clark's Yarn Manufacturing Margin Tables and are publishing in this issue those dealing with-weaving yarns.

When a mill sells weaving yarns their cotton price at the left. Going they must deduct, from the selling down from the yarn price and When a mill sells weaving yarns price, 5 per cent commission, 3 per cent discount and freight (averaging about 65 cents) in order to get the net returns.

Thus on a sale 55 cents the mill gets 50.03 and subject to a small variation in freight that figure is fixed:

When a mill buys cotton they must add a certain amount to cover waste and experience has shown that it is not safe for a yarn mill to allow less than 15 per cent. Some overhead. simply add 15 per cent to the price When s but it is proper to consider that 100 pounds of cotton will produce 85 pounds of yarn which gives a different waste figure from simply

Subject to a slight variation in waste that figure is fixed just as much as the net returns above.

If a mill sells 20-2 yarns at 55 cents they get 50.03 cents net and if they buy cotton at 35 cents their cotton cost per pound is 41.18 cents. 50.03 minus 41.18 equals 8.85 cents. 8.85 is therefore their manufacturing margin, that is, the amount left for the payment of wages, salaries, supplies, power, taxes, depreciation, in fact everything except commis-

As very few mills can produce 20-2 yarns today with a labor cost of less than 6.5 cents the above fig-The average yarn mill manager is ure based upon today's yarn and selling at 55 cents, believing that

eased selling commissions.

Referring to Clark's Weaving
As the efficient manager has to Yarn Manufacturing Tables on pages Weaving compete with the sales of the man 8 and 9 the price of cotton is the who does not realize his costs, any- first column on the left with cost of thing that can be done to educate cotton per pound of yarn in the sec-

l yarn manufacturers.

Across the top are yarn prices
With that purpose in view we with the net returns (prices less commissions, discounts and freight) immediately below.

If a mill is offered a certain price

for yarn they can find that price along the top row of figures and find across from the cotton price they meet in a square that contains the manufacturing margin.

In August, with cotton at 24 cents mills were selling 20-2 at 37 cents.

Under 37 in the table and across from 24 will be found the figure 5.22, which was the manufacturing margin and shows that yarns were being sold in August without enough margin to cover the wages, not to mention power, salaries and other

When selling on a close margin needing business mills prone to guess that they can break even rather than make the calculations that show a substantial loss.

ferent waste ngure from With Clark's Yarn manufacturing adding 15 per cent.

With cotton at 35 per cent the Margin Tables before them the cost of cotton per pound of yarn "manufacturing margin" can be quickly obtained for any price of cotton and any mill should arn and cotton and any mill should know what manufacturing margin is required to cover their costs.

We are printing the tables for weaving yarns in this issue and next week will print the tables for hosiery yarns as their net returns are determined from "5 and 2 and 2 and freight instead of 5 and 3 and freight, as in the case of weaving yarns.

These tables will be printed on in fact everything except commis- card board and sent to every yarn sions, discounts, freight and waste. mill in the South.

We are glad to bear the labor and salesman in the South, paid us a expense if through these yarn tapleasant visit and expressed his apples we can assist in getting the preciation of the Who's Who yarn manufacturing business of the South upon a better basis.

Yesterday, as it were, our friends were with us but now the hand of the word they.

## Demand for Goods Bears Little death has touched them and they Relation to Price of Cotton. have passed on.

A mill manager said to us this week. "I do not see how cotton can advance when there is such a small demand for goods.'
We heard sin

have heard them all the way up, but the price of cotton has contoday, is better than when cotton which any man might be proud.

As we chronicle the death of the

It is difficult for most men to men to realize new conditions or adapt we follow different routes through themselves to them and the man life we all must eventually come to who does not think tries to judge the same point.

Just as Jas. Maxwell and Dad Fersier a few moments face to with old ones.

Because the mills have never times when a scarcity was predicted

but did not occur.
Only by cleaning the farms of uncounted cotton the result of many even then there were dozens of mills that were idle for a few days because they could not get the char-

acter of cotton they needed.

Norman, Mayer & Co., who made
an end of Septmeber estimate of 10,700,000, have reduced their esti-mate to 9,657,000 bales. Watkins Bureau have reduced

their estimate of 10,829,000 bales to 9.782.000

W. Arthur Shelton, who was almost alone in his early estimate of 9,700,000 bales, now places that figure as the maximum possibility.

Should the crop prove to be 9,-750,000 bales we would have the following situation: Aug. 1, 1923, carry-over... 2,500,000

V	1923 crop	9,750,000
е	Total supply Smallest amount to which	12,250,000
s,	Aug. 1, 1924, carry-over could be reduced.	1,000,000

Available for mills.

Necessary curtailment... 900,000 These figures do not take into consideration the 450,000 bales that will be needed for August, 1924, consumption.

Anticipated consumption\_ 12,600,000

Under such circumstances we are facing unusual conditions and the sooner the mills realize, that for this year at least, the demand for goods the price of goods, bear relation to the price of cotton, the better it will be for them. The supply is so far short of de-mand that supply will exert the

greatest influence.

#### The Hand of Death.

few weeks ago we enjoyed a visit of more than an hour to the office of Jas. H. Maxwell in Greenville and inducing him to talk of his career, he told us much of his early

Less than three weeks ago F. B. (Dad) Ferris, the oldest textile in size and beauty.

have passed on.

We selected them for two of the first of our Who's Who Among Tex-tile Salesmen sketches because they were not only among the oldest of the textile salesmen but because of similar statements the fact that by their character and when cotton was 22 cents and we clean business methods they had set an example for the younger salesmen.

tinued to advance and the demand. They have passed but behind for goods and yarns, while not good them they have left records of

as 22 cents.

As we chronicle the death of these
It is difficult for most men to men we are reminded that although

ris lay for a few moments face to face with death and then passed on, faced a situation when cotton could so must each of us stand face to not be obtained mill men talk of face with death and in that greatest of all moments most of us would like to stand with as clear a con-science as our two friends.

A superintendent passing through years' accumulation did we avoid an a mill pulls a few fibers from a tuft actual scarcity last summer and of cotton and did he spend hours and days combing and caring for those fibers while he neglected the hundreds of bales passing through the mill we would call him a fool.

And yet, life compared to eternity is but as the few fibers are to a year's output of a million spindle

We do not stop to think and while we comb and try to straighten our few little fibers and do things that should not do, we come to the point recently reached by Jas. Max-well and Dad Ferris and then too late we will realize that our vision was wrong and our mountains of importance were but specks of triviality.

Two good men and two textile salesmen who were an honor to the fraternity have passed and as they laid down their grips and embarked on that journey from which they will never return they left us memorries and inspirations.

#### 11,500,000 1923 Health and Happiness Number.

Next week we will issue as a supplement to our November 22nd issue our 1923 Health and Happiness Number containing more than 300 pages of illustrated sketches of Southern cotton mills.

There will not only be views of the mill buildings but of schools, churches, community houses, play-grounds, etc., and it will be wel

worth keeping.
On account of the very large expense of printing this edition we will not be able to supply copies except to our subscribers and only to those whose subscriptions are paid to date of the issue of this number.

We know from experience that many will write for copies after it is issued but we wish to state now that the only way to obtain a copy is to pay your subscription before November 22nd.

In 1919 we issued a similar Health

and Happiness Number but the 1923 Number exceeds that of 1919 both

## **Personal News**

H. Lee Dearman has resigned as overseer carding and spinning at the Paola Mills, Statesville, N. C.

G. L. Chapman has been appointed superintendent. Woodstock Mills, Anniston, Ala.

G. R. Roberts has been appointed to his firms he continued on the overseer carding and spinning at the road. Bowen-Crews Mills, Athens, Ga.

E. W. Bradley, of Charlotte, has become overseer spinning at the Paola Mills, Statesville, N. C.

Jesse Coker has resigned as superintendent of the Utilization Plant and mill men looked forward to his the Indian Head Mills, Cordova,

W. M. Wofford has been promoted high plane. from card grinder to second hand in card room, High Shoals Cotton Mills, High Shoals, N. C.

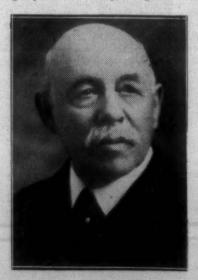
J. C. Coggins, of Mooresville, N. C., has accepted the position of over-seer carding at the Paola Cotton Mills, Statesville, N. C.

W S Moore has resigned as overseer carding and spinning at the afternoon session, with a lunch at Red Springs Cotton Mills, Red which the Charlotte men will stage Springs, N. C., and accepted a simian interesting program of entertainlar position at the Cheraw Cotton ment. Mills, Cheraw, S. C.

#### F. B. Ferris Dead.

F. B. Ferris, probably the oldest length of laps. textile salesman in point of service, urday, November 10th, and was chairman of the Carders' Division buried at Charlotte on Thursday, meeting. November 15th.

"Dad" Ferris came South as sales-man for a ring traveler firm in 1877 and had been on the road contin-



card clothing manufacturing plant bleached material.

Ira Bishop, of Selma, Ala., has in the South. Mr. Ferris devoted a located in Shortleaf, Ala. considerable portion of his time to considerable portion of his time to the Texas territory and enjoyed a large business from that section.

For some time he had desired to retire and was financially well able to do so, but the Textile Mill Supply Company and the Charlotte Manufacturing Company found it difficult to fill his place and through loyalty

At the time of his death he was president of the Charlotte Manufacturing Company and vice-president of the Textile Mill Supply Company.

With a wonderful personality Dad" Ferris made friends easily 'Dad" calls with much pleasure.

He was a clean competitor who pitched his salesmanship upon a

#### The Carders' Meeting.

The Carders' Division of the Southern Textile Association is going to hold a very interesting meeting at Charlotte on Wednesday, December 5th.

There will be a morning and an

Blanks will be sent out in a few days for the records of tests that are to be made.

Among the tests will be the determination of the variation in the

J. O. Corn, of Columbia, S. C., died at Guthrie, Oklahoma, on Sat- and will preside over the Charlotte

#### Hanes Head of Underwear Men.

Utica, N. Y .- Establishment of a uously since then.

He joined the forces of the Charlotte Supply Company in 1891 and America, adoption of a new constieght years later helped organize the tution and by-laws fixing new dues, and nominations of P. H. Hanes, Jr., of the P. H. Hanes Knitting Company, Winston-Salem, N. C., as president, were chief features of the opening session of the semi-anconvention attended by 200 members on Thursday.
Destruction of 24 cotton mills

operating 900,000 spindles in the recent earthquake in Japan was given as one of the chief reasons for the erratic tendency in the cotton mar-ket by Edward T. Pickard, head of the textile department of the United States Department of Commerce. Four names for men's undergar-

ment models were announced. re: "Knitgard," "Knitathletic," 'Semiletic" and "Zepherized" "Knit-gard" applies to men's quarter gard" applies to men's quarter sleeve, sock-length leg; "Knitath-letic" describes knitted athletic cut sleeveless loose knee-length gar-ments; "Semiletic" is a sleeveless F. B. FERRIS sock-length garment for summer wear, and "Zepherized" means
Textile Mill Supply Company, and in bleached material exclusively for 1911 helped launch the Charlotte summer wear, absorbing perspira-Manufacturing Company, the only tion to a greater degree than un-

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## MILL NEWS ITEMS OF INTEREST

Lincolnton, N. C.—The Melville Manufacturing Company, No. 2, has awarded contract to the Bahnson Company, Winston-Salem, N. C., for complete humidifying equipment.

Arcadia, S. C.—Lockwood, Greene & Co., engineers of Charlotte and Boston, are designing and supervising complete sewerage and water works system for the Arcadia village near Spartanburg, S. C.

McKinney, Texas.—At a meeting of business men plans were discussed for the erection of another big cotton mill. McKinney business men are expected to take the bulk of the stock and they will be asked to subscribe to a fund of \$300,000 as a starter.

Jackson, Miss.—The work which Lockwood, Greene & Co., engineers of Atlanta, Ga., and Boston, Mass., are doing for the cotton Mill Products Company, of Jackson, Miss., consists of motorizing an engine driven mill and installing a new lighting system.

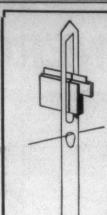
Danville, Va.—Officials of the Riverside and Dan River Cotton Mills have announced that production of certain departments would be indefinitely curtailed. Only departments manufacturing coarser goods will be affected.

Employees will work half time. It was not announced how many employees would be affected. Unfavorable market conditions was given as the cause. The Riverside and Dan River Cotton Mills employ about 5,000 operatives.

Thomaston, Ga.—The Thomaston Cotton Mills will erect a large bleachery plant near the site of the present cotton mill, it is announced. This new plant will cost \$500,000 and will employ several hundred helpers. Bleaching and sheets will be the main output. About one-half of the products of the mill will be completion of fabrics from Thomaston and Peerless Mills.

A water system with a capacity of 10,000,000 gallons is being erected to supply the plant. A pumping station of 2,000,000 gallons daily flow is nearing completion on Potato Creek, about a mile from Thomaston. Advertisements for expert white and colored labor are appearing.

Abbeville, S. C.—The annual stockholders' meetings of the Abbeville Cotton Mills was held last Friday and a dividend of three and a half per cent declared. All officers and the board of directors were relected. President A. A. Hatch, G. H. Milliken, H. A. Hale and W. E. Winchester attended the meeting from New York. They came in a special car and had as their guest Victor Montgomery, of Spartanburg, President Hatch, H. A. Hale and Victor Montgomery attended the pageant at Due West last Friday afternoon before the party left for Gainesville, Ga.



#### K-A Electrical Warp Stop

Our Southern Representative

#### Mr. William D. Whittaker

is in charge of both the

ATLANTA OFFICE and CHARLOTTE OFFICE

Competent assistants at both offices will carry on our K-A Service

R. I. Warp Stop Equipment Co. CHARLOTTE PAWTUCKET ATLANTA



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SERVICE PARTY

R. P. SWEENY Manufacturer 406 News Bldg., Greenville, S. C. Clean Your Spinning Rolls
By AIR SUCTION with

THE
Sweeny PNEU-WAY Cleaner

**Stops Gouts** 

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1—250-ton Logeman Hydraulic Cloth Baling Press. Excellent condition. Attractive price for immediate acceptance.

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Greenville, S. C.

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Community and Mill Village Complete Topographic Surveys
Developments General Designs, Planting, Grading
Parks, Real Estate Subdivisions and Detail Plans
Supervision of Landscape
Resort Hotels and Country Clube Construction
Private Estates and Home Grounds Inspection and Maintenance

Largest Landscape Organization in the South

Anderson, S. C.—A fire in the motor room of the Orr Mills burned the big ropes that run the machinery. This rope is used instead of belts, and the mill will be closed down until the ropes can be duplicated, which the management says will be about two or three days.

The sprinkler system was turned

The sprinkler system was turned on and the damage from water was considerable. It is not known yet just what the damage will amount to.

Hogansville, Ga.—Lockwood, Greene & Co., engineers of Atlanta, Ga., and Boston, Mass., announce the incorporation of an unusual feature in the design of the plant of the new Stark Mills, Hogansville, Ga., which is being erected under their supervision. The central air conditioning apparatus is located at the top of the building directly over the spinning room instead of being located in the basement, which is the usual practice. The new location effects a considerable saving in construction cost because the larger ducfs which carry most of the conditioned air run a relatively short distance. A further saving is effected by the elimination of expensive construction in the basement to provide the necessary housing for the humidifying and washing equipment in that location.

Dunn, N. C.—The looping plant of the Durham Hosiery Mills here has been closed and the machinery is being shipped to Durham. The plant was discontinued because of poor business, according to the management. It was opened in 1920, when manufacturers were overrun with orders. Soon thereafter, the business slump came, and while the plant has been operated continuously since it was first started it has been a losing venture, it is understead

When the plant was opened the company had in mind the erection of a large plant in Dunn, but owing to adverse business conditions, it was found advisable to not expand the business. Sam B. Ferrell was manager of the plant here, and will go to Durham, where he will be associated with the same company.

Laurens, S. C.—At the annual meeting of the stockholders of the Laurens Cotton Mills, presided over by Senator N. B. Dial, president of the company, the resignation of J. W. Todd, Sr., as a director, was accepted and his son, Albert C. Todd, was chosen to fill the vacancy on the board.

The other members of the board were re-elected in the directors session held subsequently. The executive officers of the company were re-elected as follows:

re-elected as follows:
N. B. Dial, of Laurens, president;
F. J. Hale, of Boston, vice-president;
W. S. Montgomery, of Spartanburg, treasurer and general manager; W. L. Smith, of Laurens, assistant treasurer.

The usual semi-annual dividend of three and a half per cent was

declared as of December 20, and will be payable December 31.

be payable December 31.

The amount of the dividend to be paid will be \$36,750. The New York and Boston party traveling in a special car after attending the Laurens mill meeting, left for Abbeville where they visited Gainesville, Ga., on a like mission.

Spartanburg, S. C.—The Pacolet, Spartan, Whitney and Gainesville Mills declared semi-annual dividends payable January 1, 1924, in each case. Earnings for the past six months have been exceptionally

Spartan Mills declared 4 per cent on the \$2,000,000 of common stock. Pacolet declared 5 per cent on \$2,-000,000 common stock and 31/2 per cent on \$2,000,000 preferred. Gaines-ville declared 4 per cent on \$490,000 of common stock and 3 per cent on \$353,000 preferred. Whitney paid 3½ per cent on \$599,300.

Spartanburg, S. C.—The Franklin Process Spinning Mills, Inc., recent-ly incorporated under the laws of Delaware, and which a short time ago purchased the Cohanett Mills near here, will manufacture cotton yarns and knit covers, according to L. W. Jones, treasurer.

The output of the spinning mills

will be taken by the Franklin Proc-ess Company and the Southern Franklin Process Company. The knit covers are used in dyeing processes by the Franklin Companies

Mr. Jones explained that the new company was simply formed to pur-chase the Cohannett Mills and operate them so that the already established Franklin Companies may have their cotton yarns and knit covers manufactured in one of their own plants.

The spinning mills will have the same officers as the Franklin Process Company, as follows: E. S. Graves, president; L. W. Jones, treasurer, and W. A. Traver, secre-

Chattanooga, Tenn.-Production is being increased as rapidly as possible at the new plant of the Dixie Spinning Company, which was placed in operation for the first time a few weeks ago. The plant is now operating at about 75 per cent of its capacity. As soon as the organization is built up a night shift is to be put on, an official stated.

The Dixie Mercerizing Company,

an allied industry, will go after the mercerized yarn business of several additional Latin-American coun-tries, shortly after the first of the year, it has been announced. The company is planning to add just such additional busines as can be

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Bogota

with branches in Barranquilla

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also BRANCH OFFICES in Banto Domingo antiago, Chile Concepcion, Chile Valparaiso, Chile Valparaiso, Chile

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#### CONSULTING ENGINEER

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VILLAGE PLANNING

Winston-Salem, N. C.

handled direct without the brokerage charge, which, it is declared, would make the business unprofitable. The mercerizing company is taking all of the yarn produced by the Dixie Spinning Company. While the company has provided for additional units, nothing is being considered at the present time.

#### South Carolina Mill Dividends.

Spartanburg, S. C.—Dividends aggregating \$301,124 were declared by directors of four mills meeting here. The dividends are payable January

Directors of Spartan Mills met this morning and declared a dividend on \$2,000,000 stock, all of which is common.

A five per cent dividend was declared by the directors of Pacolet Manufacturing Company on the mill's common stock of \$2,000,000

and a 3½ per cent dividend on the preferred stock of the same amount.

Directors of the Gainesville, Ga., mills voted a dividend of four per cent on \$480,000 common stock, a 3 per cent dividend on \$350,000 preferred stock.

#### Textile School in North Carolina.

The textile department of the North Carolina State College, which is the textile school of North Carolina, opened up with a registration of 160 day students. These students were from all sections of the South but principally from North Carolina. Foreign countries are also represented-China, Japan, Hawiian Islands and India.

The Textile Building will be enlarged during the coming year and new equipment will be added which will consist of additional machines for carding, spinning, weaving and dyeing. An important addition will be an experimental laboratory, which will be equipped with all the latest machines for testing textile fabrics.

Plans for the new addition to the building are being prepared by J. E. Sirrine & Co., of Greenville, S. C.

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must be one that for simplicity with great capacity and economy in maintenance produces uniformly such conditions that may be determined for the different requirements of the work. In the American Moistening Companya method of humidifying, all such requirements are GUARANTEED.

Our COMINS SECTIONAL HUMIDIFIERS
Our FAN TYPE and HIGH DUTY HUMIDIFIERS
Our VENTILATING Type of Humidifier (Taking freely into
the room from outside)
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systems already installed)
Our AUTOMTIC TEMPERATURE CONTROL
Are all STANDARDS OF MODERN TEXTILE MILL EQUIP.
MENTS.

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RUSSELL GRINNELL, Precident

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## TALLOW—OILS—GUMS—COMPOUNDS

#### ALSO HOSIERY FINISHING AND BLEACHINGS

TEXTOL, A new product especially for Print Cloths. A complete warp size, requires no addition of tallow



Tallow, Soluble Grease, Soluble Oils, Gums, Glues, Gum Arabol, Lancashire Acme Size, Waxes, Finishing Pastes, Soaps, Glycerine, Ready-made Heavy Size, Sago and Tayloca Flours, Dextrines, China Clay, Soluble Blue, Bone Grease, Bleachers' Blue.

SPECIAL COMPOUNDS FOR WARPS, WHERE STOP MOTIONS ARE USED.

WEIGHTING COMPOUNDS FOR COLORED AND WHITE WARPS. FINISHING COMPOUNDS FOR ALL CLASSES OF FABRICS.

The Arabol best grades of cotton warp sizing compounds make the "finest weaving and will hold the fly."

These compounds are based on the best practical experience and the best materials used in their manufacture.

The Arabol Manufacturing Co

P. D. JOHNSON, Georgia Representative, Atlanta, Ga.

Southern Agent: Cameron McRae, Concord, N. C.



Factories: Brooklyn, N. Y.

STEPHEN ARLEIGH, South Car. Representative, Greenville, S. HERBERT BOOTH, Tenn.-Ala. Representative, Chattanooga, Te

#### Sizing.

(Continued from Page 19) cloth. The use of automatic appliances to reduce the steam heat in the cylinders is a help, but even then the heat retained by the metal surfaces of the cylinders tends to bake the yarn. In the new drying machines, quick cooling of the dry-ing chambers during stoppages is easily effected.

New products should be tried only after a chemical test has shown some probability of their usefulness. Many a manager has trusted to the supposed infallibility of a practical test in the mill, whereas a sizing test is infallible only if it is a very painstaking detailed test; which is seldom the case.

With proper equipment, known materials, and tests that really give the necessary information, the siz-ing process can be put on as exact and dependable a basis as any other process in textile manufacture.—W. H. Whewell, in Journal of Society of Dyers and Colorists.

Sees Textile Industry as Great Field for Research.

-"The cotton industry has London .not used to the full the immense power bestowed on this generation by scientific discoveries," declared A. E. Oxley, physicist to the British Cotton Industries Research Association, in a lecture on "The Physicist in the Textile Industry," recently given before the Institution

of Electrical Engineers in London. Dr. Oxley declared the textile industry offered an almost entirely

DRONSFIELD'S PATEN ATLAS BRAND" EMERY FILLETING "Needs no 'Damping' " "The New Flexible" TRADE MARK Stocks in PLIABLE Boston and TENACIOUS the South Guaranteed'A' Quality-the Only Quality we Make Used the wide world o'er and recognized by every race as the Standard Card-Grinding Medium Supplied by Principal Supply Houses or DRONSFIELD'S SALES AGENCY 232 Summer Street BOSTON, MASS. LEIGH & BUTLER.

unexplored field for the research physicist and problems sufficient for a brigade of physicists. There was no industry so much in need of cooperation with the physicist as those in the textile group.

Producing a specimen of cotton pod grown under glass in Manchester, Dr. Oxley explained the manufacturing processes it underwent, and in offering illustrations of the assistance of scientific method he said that one of the most important qualities of spun thread was its evenness or regularity. Hitherto the spinner had used the primitive method of taking a thread and winding it on a card, and the test of regularity was that of looking at the patchiness of the yarn. Recently they had been taking photographs of the regularity and tracing variation under high magnification. Another useful device had been provided in the oscillating stresses machine. It had been found that any thread could be broken by sufficient oscillation.

"I think there is no machine of the cotton trade," concluded Dr. Ox-ley, "which cannot be improved, and if you think of the enormous number of processes through which the cotton has to pass and the labor number of processes through which the cotton has to pass and the labor entailed in handling the material you realize that if one or two of these processes could be eliminated it would mean millions and millions to England." It was by a combinato England." It was by a combina-tion of efforts between scientists and the operatives that a trade of such vast importance to England and the world would remain with England.

Manufacturers of Speeders, Skewers, Warp Bobbins, Filling Bobbins, Cap Spinning Bobbins, Northrop Loom Bobbins, Twister Bobbins, Twister Spools, Warper Spools, Comber Rolls, Quills, Underclearer Rolls (plain or covered).

## U S Bobbin & Shuttle Co.

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PROVIDENCE, R. I.

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We make a specialty of Shuttles for all makes of looms, both plain and automatic. Correspondence solicited.



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THE DAVID BROWN COMPANY

Lawrence, Mass. NOTE our New Factory Additions and Improved Facilities for Manufacturing Our

"HIGH GRADE"

Bobbins, Spools and Shuttles

Catalog on Request

weaknesses in the bleach market, it the textiles.
will be unable to maintain the previously announced price of \$1.50 per plained, that testing methods and 100 pounds f. o. b. Niagara Falls, as specifications drawn up by a proapplying to carload contract shipments in standard drums for Noin his favor, and that the same is vember and December, and will apply for all shipments during those months, a price of \$1.25 per 100 pounds, credits being issued on past shipments.

It also announces to the trade in general, that price on contracts for twelve months for 1924, in standard drums in carloads of bleaching powder, are now being offered at \$1.25 per 100 pounds f. o. b. works and contracts for liquid chlorine in tank cars at \$3.25 per 100 pounds f. o. b. works.

#### Receivers Appointed for Spartanburg County Mills.

Spartanburg, S. C.—George A. Norwood, of Greenville, and B. C. Fiske, of Spartanburg, have been named receivers for the Spartanburg County Mills by Judge T. J. Mauldin. The court's order has been filed with County Clerk of Court Ernest Miller, of Spartanburg. Messrs. Fiske and Norwood have given bond in the sum of \$10,000 each and will enter immediately upon their duties. upon their duties.

The order for the appointment of receivers grows out of the case of Wade H. Gray, suing in behalf of himself and other creditors, against the Spartanburg County Mills. The Mr. Jury pointed out that while motion was made by Nicholls & the value to the clothing manufac-Wyche, attorneys for the plaintiff, turer of testing methods and speciwith the consent of Bomar, Osborne fications might not be immediately & Brown, attorneys for the defend- apparent, the experience of the

which they ask judgment. The cloth would indicate whether from books of the company show liabilithat angle the cloth delivered was ties of \$466,236, and resources of up to the sample.

tion of the mill for 90 days and to Advisory, humidity, fabric test sell the plant and product at private methods, testing machines, classifisale subject to court confirmation cation and identification of fibers during that period. The receivers and fabrics, nomenclature and defimay borrow money to continue the nitions, imperfections and toler-business and are ordered to make an ances, yarn thread and twine, pub-inventory of all the mill properties licity, hose, belt and numbered duck, and report back to the court.

from prosecuting claims court except in this action. in any

#### Test Methods for Yarns.

for woolen weaving yarns and cloths consumption of cotton by United and for woolen and cotton knitting States mills to November 1: yarns are to be worked out by two special sub-committees of the American Society for Testing Mate-American Society for Testing Materials, it was learned from Alfred E. Jury, of the U. S. Rubber Company, who is chairman of the society's committee on textile materials, known as Committee D-13.

At a recent meeting of this committee authority was granted to proceed with the organization of excess of last year.

Price Announcement From Mathie- these two new sub-committees.

Son Alkali Works. These groups, in accordance with son Alkali Works.

These groups, in accordance with the practice of the organization, in The Mathieson Alkali Works is relation to its work in cottons, will announcing to its contract custom—be made up of representatives of that in view of the continued both producers and consumers of

> true with a code formulation by the consumer.

When the two classes are brought together in one group, it is found that they can work out tests and specifications which are mutually practical and satisfactory. "They establish a common language," as

Mr. Jury put it.
While the primary purpose of the new sub-committees, which are now being organized, will be to establish testing methods and specifications for materials to be put to mechanical uses, Mr. Jury said that the development of the work would necessarily, as in the other activities of Committee D-13, lead to the establishment of rules for fabrics going into the manufacture of garments.

"These testing methods and speci-fications," Mr. Jury said, "are virtually certain to develop along such comprehensive lines as to make them applicable to other purpose besides mechanical, and that would

include clothing."

In selecting the personnel for woolen weaving and knit goods arns-the knit goods will include both wool and cotton-representatives of the spinners will meet representatives of cloth weavers and of

clothing manufacturers.

Mr. Jury pointed out that while ciety has shown that the establish-It is alleged in the complaint of ment of specific factors is found the creditors that the Spartanburg helpful by every branch of an in-County Mills are indebted to the dustry. As an instance, he said that plaintiffs in the sum of \$119,275, for a test of the tensile strength of a

\$200,000, it is alleged. Committee D-13 on testing mate— The order of the court empowers rials is divided into the following the receivers to continue the opera—sub-committees:

cement bag test methods and spec-It is further ordered that all cred-ifications, membership, publications, itors of the company be enjoined The precise designations for the two sub-committees have not yet been announced.

#### Consumption of Cotton.

States mins to Mo	1922	1923
August	527,404	491,604
September	495,344	483,852
October	533,950	541,825

J. C. Norfleet, Jr., Pres. Allan W. Leftwich, Vice-Pres. D. C. Groves, Secy. & Treas.

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All Numbers, Regular, Reverse and Fancy Twists.

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Sales to customers by wire on mill's acceptance and approval.

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Last Longer, Make Stronger Yarn, Run Clear, Preserve the SPINNING RING. The greatest improvement entering the Spinning room since the advent of the HIGH SPEED SPINDLE.

Manufactured only by the

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N. C.

#### Situation.

(Continued from Page 13) and a cause for congratulation, that men and women are rapidly coming to a realization that corporate propbe evidenced towards such property. Your competent committee has been much in evidence in impressing this fact on the minds of the people, ably assisted by your competent general

"It may not be out of order to mention at this time that in one of the Northern States, where manufacturing is an important item in the States' affairs, a referendum was had as to a reduction of the hours of labor from 50 to 48 hours per week, and though the reduction was energetically advocated by all the prrofessional agitators of the State and Nation, the election proved to be a great disappointment to the paid disturbers of the peace, and the proposed reduction in hours was overwhelmingly defeated."

### Jordan Mfg. Co. to Have Plant at Johnson City.

Johnson City, Tenn.-The industrial department of Clinchfield Rail-way announces the location in Johnson City of the Jordan Manufacturing Company, whose main offices are at Monticello, Ga. The company has purchased a tract of land on East Maple street on which it plans to erect buildings and install machinery at once for semi-finishing hardwood timber to be reshipped to its plants in Georgia and North Carolina for manufacture into bobbins for cotton mills. The main plant is

at Monticello, while others are located at Dublin, Ga., and Toecane,
N. C.

"Our Place in the General Piping
Our Charlotte Plant—What We
The company expects to build a Are Doing and What We Hope to
finishing plant also. A. D. Roper, at
present with the North Carolina
plant, will move to Johnson City plant, will move to Johnson City and assume charge of operations The company is the largest of its kind in the South and is said to sell its entire output of bobbins,

## Parks-Cramer Organization Holds Conference.

Following the Textile Exposition

following members of the Charlotte organization were present: per cent, though the Davis increased W. B. Hodge, vice-president; I. D. its rate from 1½ to 3½ per cent and Kimball, Southern manager; P. B. the Luther Manufacturing Company Mayo, district sales manager; O. G. paid 10 per cent extra, and the Pil-Culpepper, H. B. Rogers and W. H. grim paid an extra of 1 per cent on both common and preferred stock. rock, inspector. From the Atlanta office came J. F. Porter and F. G. ker, Seaconnet and Troy again Shaefer. Messrs. Thompson, Cotpassed their dividends, and the trell, Park, Brown, McKechnie and Macdonald were present from the Boston office. Charlotte organization were present:

President Hammett Discusses Mill This conference was opened by Robert S. Parks, treasurer and general manager, who stated that this was the third such conference to be (Continued from Page 13) was the third such conference to be are not as vicious as many would held by the Parks-Cramer Company. have our people believe. Their work Mr. Parks also drew attention to the was wonderfully well done, and is fact that this organization, founded thoroughly appreciated by the in- 51 years ago on a mere "shoestring" dustry as a whole. It is refreshing as capitals are today considered, had a cause for congratulation that their itself are from within an built itself up from within-an organization internationally known in the field of humidifying and air erty is disposed to be fair, in every conditioning. Attention was drawn way, and willing to bear its full to the fact that this organization share of the burden of government, consists primarily of two plants—and only asks that a fair disposition remote geographically, but welded together by the interchange of ideas and the friendships developed in these conferences.

> "There is no reason why there cannot some day be in the textile industry itself the same extension of and good feelings between Northern and Southern cotton mills that we have in our own organization as between the Fitchburg and Charlotte offices."

> As a part of this conference many members of the organization had assigned to them a subject to speak which they were competent to take care of and to lead the discussion in. By this method many interesting points were brought out and the experience of one was made the information of all. Among the interesting subjects taken up were

> the following:
> "Humidity From the Mill Man's
> Point of View," by B. S. Cottrell,
> who spent many years before becoming connected with this company in an executive position with
> cotton mills.

"The Development of the Turbo Humidifier," by A. W. Thompson, inventor of the Turbo Humidifier, and at one time mechanical superintendent of the Amoskeag Mills and agent of Saco-Lowell Shops at Lowell.

"Automatic Humidity Regulation in General," by W. B. Hodge, the company inventor of much of the equipment used by this company.

In addition to this much attention was given to the discussion of possible improvements of service to the

#### spools, etc., to Southern cotton mills. Fall River's Dividend Rate for Past Quarter.

Fall River.—The rate for the quarter just ending was not made larger than that for any one of the in Boston, forty members of the three preceding quarters by the Parks-Cramer organization held a majority of the mills increasing three days' sales and engineering their dividends, but mainly by the conference at their headquarters in King Phillip Mills paying 25 per cent Fitchburg, Mass., November 5th to extra on its \$2,250,000 capital and 7th.

The following personness of the three preceding quarters by the Parks-Cramer organization held a majority of the mills increasing three days's also sales and engineering the control of the processing three processing the processing the processing three preceding quarters by the parks-Cramer organization held a majority of the mills increasing three days's sales and engineering their dividends, but mainly by the conference at their headquarters in King Phillip Mills paying 25 per cent for the processing three processing thre pany increasing its rate from 3 to 5 per cent, though the Davis increased its rate from 1½ to 3½ per cent and

maintained the same dividend rate creased, to the benefit of the oper-

as for the previous quarter.

It is doubtful if the mills as a than for the previous quarter, in the though production was greatly in-more cl-



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as for the previous quarter. atives, who have not averaged more It is doubtful if the mills as a than three-quarters time since the whole made any better showing advance in wages was granted them advance in wages was granted them in the late spring. Considerably more cloth was sold in the course of the quarter, but prices obtained were admittedly low compared with production cost. Cloth prices have been advanced, but not in comparison with the advance in the cost of raw material, and mills that find themselves compelled to go into the market today for cotton are seriously considering curtailing.

## H. W. Butterworth & Sons Co. Open Southern Office at Greenville, S. C.

Everyone who has lived or even visited the cotton States of the South realizes the tremendous growth of the Southern textile industry. However, to have a textile finishing machinery concern, established 103 years, open a branch of-fice in the South and place it in permanently an officer of the company is a real acknowledgment of the greatness of the South's textile

industry.

H. W. Butterworth & Sons Co., in opening the new office in the Woodside building, Greenville, S. C., have sent out a note to their friends in the South. The first few words in this explains fully their purpose in opening the new office.

The note which was sent out from

the Philadelphia office reads:
"That we might be able to render a still more efficient and complete service to the South and her great textile industry, we have established a branch office in Greenville, S. C.

"In this office, 900 Woodside building, are kept complete plans of practically every Butterworth finishing machine ever installed in the

"The new office is in charge of J. Ebert Butterworth, treasurer of H. W. Butterworth & Sons Co. He is assisted by J. Hill Zahn, who also has been identified with our organi-

zation for a number of years.
"Both Mr. Butterworth and Mr. Zahn will be pleased to have you call upon them for any service which they might be able to ren-

der."
We feel sure that Mr. Butterworth and Mr. Zahn will be welcomed by that spirit which has made the des-ignation "South" synonymous with hospitality.

## 10 Per Cent of Cotton Acreage Treated With Poison,

Washington.—More systematic use of calcium arsenate poison by cot-ton growers in combatting the boll weevil, and other insects, is shown in reports to the U.S. Department of Agriculture from its crop correspondents. The figures show that approximately 10 per cent of the cotton acreage this year was treated with the poison. In some localities, six or more applications made dur-

ing the season.

In South Carolina and Georgia, where the boll weevil has been most destructive in recent years, between 36 and 38 per cent of the cotton area was treated. In Florida the poison was applied to 15 per cent of the acreage, and in Arkansas 14 per

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the fibres of the yarn-cotton, woolen or worsted whichever it may be-and prevents waste of good materials by eliminating flyings.

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MEMPHIS, U. S. A.

H. B. POTTS, Vice-Presidnet
t. A. C. ROBINSON, Sec. and Treas. D. H. CRUMP, President
J. C. WILLIAMSON, Vice-President

North Carolina will oppose the petion of the Southern Power Company to the Corporation Commission that the rate for power be increas-ed. The mills, which include fourteen plants in Alamance county, and nine of the mills of the Cannon chain, have retained counsel and will make active fight against the

proposed higher power rate.

The Southern Power Company serves 308 mills in North Carolina and the 23 mills referred to above are the only textile plants that will oppose the rate increase. It is reported that 23 other plants have expressed their willingness to pay the higher rate and that the remainder have taken no action either for or against the newer rate.

The petition was filed by the Southern Power Company early in October after James B. Duke, president of the concern, had indicated in a statement to newspapers that he would cease water power development in North Carolina unless the further investment. Mr. Duke asserted that \$60,000,000 had been invested by him in North Carolina water power development. He addnot discontinue operation of the plants now in operation.

The petition asks for an increase in water power rates of approximately 10 per cent, varying with the class of industry supplied and the amount of service purchased. It recites in detail the history of wa- of the drawing, and is sp-ter power development by the plicable to flyer spinning.

Mills Fight Power Increase.

Southern Power Company and details previous transactions with the Twenty-three cotton mills of Corporation Commission on the oc-

casion of a petition for increased rates three years ago.

#### Drag and Twist.

If too much "drag" is applied to a sliver in the drawing, a false draft is put on, and the diameter of it varies, becoming irregular in thickness, and breaking and causing waste. Loss of time occurs in piecing. To remedy this, more twist may be inserted, with the result that the sliver becomes "leaner," that the sliver becomes "leaner," losing its elasticity and suffering considerably in the subsequent drafting operations, resulting in breakage of fibres owing to a greater amount of weight having to be put on the drafting rollers. Considerably more wear takes place, and more power is required to drive the machines.

These rules for adjustment of the factors governing the "drag" and "twist" may be heeded with profit: Examine the quality and condition increase was allowed because of the of the sliver carefully. Regulate the fact that his company was not mak-size and composition of the washers ing a profit sufficient to warrant a according and position in the draw-further investment. ing. Study the twist at each stage, and bear in mind that the function of twist in the drawing operations is to give the sliver sufficient strength ed, however, that though he would to resist breakage during winding cease investing in the event of an and unwinding at the next opera-unfavorable decision, that he would tion, and that only in the actual spinning is twist regained to the full extent according t othe class of fabric to be produced from the yarn. The wrapping of the flyer is point worthy of attention, and has a direct influence upon the drag and condition of the sliver at all stages of the drawing, and is specially ap-

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I would be glad to send copies of it to any of you who are interested. I would like to summarize it briefly and to point out a few of its chief characteristics. Our plan creates four shop councils composed of emcharacteristics. Our plan creates unsettled, the grievance can be four shop councils composed of embrought up in the shop council. It ployees elected by secret ballot in is significant that in the drawing up the proportion of one representative of the plan the employee members for every 175 employees in a depart for every 175 employees in a depart-ment and an additional representative for each additional 100 employand management representatives appointed by the management from persons of the rank of second hand or above. The plan provides that the number of management representatives shall never exceed the number of employee representatives—but in actual practice the have an oppor management representatives in the shop councils. shop councils are in the minority by a considerable margin. Each shop council has two standing committees, each one of which is composed of three management and three employee representatives. These committees are called (1) the production and factory conditions committion and factory conditions commit- agement in making its decisions tee which considers matters of with due regard to the point of view wages, discipline, and production, of the empoyees. This sentence and (2) the health, safety, and gen- alarmed some people who have had eral activities committee, which as experience with employee representate name implies considers those tation and they stated it would kill which the potential of the product the same whole properties. subjects which do not fall under the our whole proposition as it was heading of the first committee. The necessary to give the empoyees idea back of the creation of these some definite legislative authority two committees was that many to arouse their interest. subjects would come up in the shop exception to this stateme councils which would need careful alyzed many plans that see study and investigation and that the Finally the plan calls for what we a fifth employee chosen by them and five management representatives appointed from among the treasurer, agent, the three superintendents the mechanical areas ents, the mechanical engineer and the service manager. It is the duty of this committee to consider those questions upon which no agreement is reached in previous committees, to consider questions which affect the plant as a whole and to act as a committee on routine, procedure and election. The plan then proand election. The plan then provides when the various committees shall meet. how elections shall be conducted, who is eligible to vote and to be elected, how long repre-sentatives shall serve, how they shall be paid, how their freedom of action is guaranteed, how griev-ances must be handled and how the plan can be amended. I will not go into detail on any of these points except to explain the course that

Employee Representation at Pacific grievance must take. The plan progrievance he must first take it up with his overseer, then if it is not adjusted properly the employee and the representative can take it up the representative can take it up the coarseer. It is still re-If it still remains unsettled the assistant superintendent or superintendent meets with all of them and if it still is joint committee were as insistent as the management in maintaining this definite line of authority and many of the representatives have often remarked that it is not only essential but also courteous to uphold the position of the overseer. The logical result of this attitude is that most of the real or imagined grievances are adjusted before they have an opportunity of reaching the

There are a few features of our plan that we feel are somewhat unique. In the first place, we came out with a very frank statement at the start and definitely stated that the committees are advisory and are for the purpose of aiding the man-agement in making its decisions exception to this statement and analvzed many plans that seem to give legislative functions to the employshop councils were too unwieldy to ees and we found that in most cases undertake work of this nature, this function is so safeguarded that all the executive power actually recall the plant committee, which is mains with the management. We composed of the four employee found that after all the employees chairmen of the shop councils and expect us to conduct the business and that they do not want to assume the authority, but what they want is an opportunity to express them-selves on the subjects which so vitally concern them and which heretofore have so often been de-cided without real information as to what the employees think about them.

Another feature of our system is that it is built up around the production men and makes the overseers and superintendents a definite part of the plan rather than featur-ing an industrial relations department of the high-falutin' type, a type which is fortunately dying a natural death. The overseers and superintendents are the men who face the problem of industrial relations from day to day and they are the men to whom the employees look for adjustments of their trou-(Continued on Page 35)

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Texas, Oklahoma and Arkansas Chickasha, Okla.

Healds and Their Application.

(Continued from Page 14) of yarn doubling, heald knitting and sizzing. If the turns per inch in the top portion of the healds are ever so slightly different from the bottom portion, the healds are liable to twist. The knitters have to be careful to have a well-balanced eye, and the sizing must be done before any varnish is applied. Some people have the opinion that twisting is not so prevalent in 4-ply yarn as it is in 3-ply yarn, and I think there is something in this idea, as a 4-ply yarn is not so elastic as a 3-ply. In this connection 4-ply means in practice 16 or 20 fold, and 3-ply in means 12 or 15 or 18 fold, as each healds are suitable to weave, I ply in heald yarn contains 4, 5, or 6 should say grey twist 24s to 100s folds. "Shanking" is another cause and colored 20s to 100s. The heald of trouble which sometimes develops after the healds have been used some time, and for this the heald maker is often blamed unfairly. Shanking is the loop portion of the healds coming loose, when brought out of the loom after weaving, and cannot altogether be overcome by the heald maker, especially when fine heald yarns are employed, for then there is so little surface for the loop and the eye to fasten together, and also it is dangerous to good gaiting to put much varnish on the eye. The practice of doubling up a set of healds to tie the reed inside should always be kept straight. Of late years some users have gone in for having the knot at the bottom of the eye instead of at the top, with fairly satisfactory results as regards getting over the shanking trouble. In this way the two threads forming this loop are at the top, and there is a good chance of these threads get-

on the same side of the stave. Noozed healds are by far the most popular style of heald in use, more especially in districts where they draw in every warp. As before mentioned, the bottom portion of the heald is divided, thus allowing the usual drawer's rod to be inserted, and this fact, coupled with %-inch eye, allows quick drawing in. So far the automatic drawing machines will only draw in this style of healds. Makers of these machines originally asked for 1/2-inch eyes, but latterly, owing to pressure from English users, they have adopted %-inch as a suitable eye for their machine. As regards the twist these machines will comfortably knit up to about 60 per inch on each shaft. Another style of heald is described

in the trade as mail healds. are usually made of cotton with eye of steel, brass, or glass, and I have seen a lot of healds from China with eyes made of bone. In order to meet the demand for healds suitable for heavy cotton weaving mail healds are varnished. This did not turn out very successful, owing to the shanking of the mail if the healds were not very carefully handled in taking in or bringing out of the shed. This brought out the patent when bringing out of, or taking into "A" mails, which have two holes at the shed, accounts for a lot of each end, the extreme holes being shanking, and fine healds especially very small, so that the heald yarn jambs itself into position and sticks there. It is essential that the thickness of yarn should be just suitable for the small holes, hence mail healds must be made to certain mails and yarn together in every case, and regard must also be paid to the number of healds per inch in relation to the width of the mail, or ting stuck together, as they are both the mails get fastened together in varnishing and cannot be easily separated. Thus these varnished mail healds have their limitation, but are still most useful for many being particularly suitable for thick warp weaves, that is, any twist up to 20s; also they are very successful for heavy sized warps.

For extra strong weaving, such as ill-cloth, canvas, etc., there is sail-cloth, canvas, etc., there is nothing to equal twisted mail healds; the twisting of the heald yarn of course strengthens the pull of the healds very much, and there is absolutely no fear of the mail coming loose. These healds are made cross leased, but clients sometimes mount open lease, which makes the eyes into two distinct rows, and as sailcloth is very closely woven, and woven on two shafts, this open lease mounting is frequently very useful. These twisted mail healds are not very good to draw in, but I understand the warps are usually knotted, and so there is only one drawing-in to consider.

As regards wire healds, I believe they were made first in England from single soft mild steel wire, which is still used to a limited and decreasing extent, but we are indebted to Belgium and Germany for modern twin soldered hardened and tempered healds. In both these countries the making of varnished healds has never got well establish-ed, hence the weaving mills were morre ready to take up the use of wire healds. The wire is first hardened and tempered, then put through a tinning machine two

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during the progress through the machine. A coil of this twin wire is put on the reel of the automatic heald machine, which pierces the two wires to form the eye, at the same time bending inward the loops. The loops and the eye part are then twisted to fasten, all at the same time. The latest machines carry the complete heald forward to the soldering pots, and so finish them off completely. The healds are soldered at the twists only, just to fasten and smooth off. For repair healds the ends are left unsoldered, reduced. They are made from 34s wire for silk up to 18s gauge wire for belting. If they are properly hung the warp should not drop between the two wires forming the heald, but rest on the sides of the eye. The healds being at an angle of 45 degrees and the warp straight, allows the warp to rest partly on the right-hand side of the eye and partly on the left-hand side of the

used in foreign markets. The frames have been made in two styles, one tion

with round rod for round loop healds and the other with flat rods for oval loop healds. My idea is that the flat rod type is much better, as it allows more freedom for the healds. A round rod allows for contact on all its surface, but the flat rod in practice is only in contact with the healds for about 25 per cent of its surface. Sliding wire healds require care and constant attention, but provided satisfactory frames are employed most excellent and economical results follow their They can be used for any counts, thus reducing very materially the stocks of healds. For dobby work, if got deep enough, they are most useful, and in this connection I would especially draw attention to the clip idea recently introduced, which provides against the wire healds jambing themselves into a diagonal position instead of vertical. This clip idea is much used in America and Switzerland, where they use nothing else but wire healds for all sorts of patterns. Sliding healds must be very slack on the rods and must have rigid frame, especially laterally. The frame must work steadily, and consequently these healds are not suitable for center lift dobbies. The rods must be kept very smooth, and they work better if every time they come out of the shed they are polished up by the application of blacklead rubbed on vigorously with a rag. In sliding frames the rod hooks are rather troublesome, as the fixed hook requires the counting of healds between each hook, and the sliding hook increases the thickness of the frame sometimes time should be given up to getting tile Society.

wires together, and the result is the frames ready, counting the what is called twin wire, that is, the healds off, etc. Much time is saved two wires are fastened together also if healds are slided on strings when taken off frames, which also keeps the healds all one way at the correct angle. A good plan is to stain one end of the healds and always keep this at the bottom, thus ensuring the same angle for all time. There is no doubt wire healds are quite suitable for pattern work, and now that sheds are fitted up with runways the old idea of bulk-iness as an objection does not stand. As regards the number per inch of wire healds to employ, a good scale is to count some on a frame and so as to allow for same to be unber. Suppose you find 20 wire twisted to put on the frame rods, healds occupy one inch 80 per cent; Wire healds all have eyes at an of this gives 16 as a reasonable angle of 45 degrees, so that the maximum number. If you want space occupied by the eye is thereby more per inch finer wire healds reduced. They are made from 34 world. more per inch finer wire healds would be necessary or else duplex frames which have two rods side by For duplex frames allow 60 per cent, which gives 24 per inch. I think sliding wire healds could be used a great deal more in Lanca-shire with great saving in cost of healds, and particularly is this so in the case of dobby cloths, which are all woven in some countries on wire healds.

A later style of wire neald mount-The most general style of wire ing is the knitted style, which is heald mountings is on the sliding made to the exact number per inch principle, which is very largely and exact width required. They are now being most successfully used in this country for regular sorts, being largely employed in Bradford for largely employed in Bradford for fine worsteds, and are being suc-cessfully used in Nelson and Bar-noldswick for fine reed cotton, sat-eens, etc. They are very pliable, and the weavers can get their hands between the healds when drawing ends in The framings have thick ends in. The framings have thick ends to prevent the knitted portions rubbing together. Another big advantage arises from the possibility of dividing the healds into two distinct rows, thus giving more room for the warp, in fine reed weaves. These healds are rather clostly in the first place, but prove very eco-nomical in the long run in sorts which punish crowded cotton healds.

Doup healds have evidently been an interesting subject, if one judges by the number of patents and ideas the subject; but the old-fashioned worsted doup heald is still the only all-round heald proposition for leno weaving. These are usually made with the slip at the bottom and to shoot naturally to the left. Sometimes rights and lefts are required but never all rights. The quired but never all rights. The hand is got by reversing the lease of the loop portion of the heald through which the slip passes. Top doups are also occasionally called for. Many old doup users order all lefts, and draw them in rights and lefts or any way desired without troubling about the lease. Doups are mostly made from worsted are mostly made from worsted, thicker and corded quality being used for the slip portion. They con-sist, of course, of three parts, two of which are machine knitted and the knotted part done by hand. A two-eyed wire standard with loose lengths of worsted put through is catches in working, and also will used occasionally in America, where not readily slide. I think the patent a triple flat steep doup is also used. glider hook will be a great healp. —Walter Jones, in Journal of Man-In any case, for patterns some little chester College of Technology Tex-



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#### Notice.

Boyce W. Allen, my son, 15 years of age, has left my home without my consent. Any information will be appreciated. F. J. Allen, No. 1 Vaughn St., Spartan Mills, Spartanburg, S. C.

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integral part of employee representation. I once went with a party of trial overseers to visit a plant where a complicated system of employee representation had been installed we talked with one of their numerous assistant directors of personnel, whatever that is. After he had talked to us in a very academic vein on the psychological effect of various terms they used, he said, "Whom am I talking to, are you all industrial relations men?" tendents in handling this problem themselves

voted. We felt that if we opposed thirty employee representatives with the same number of management representatives that we immediately gave the impression that the shop and that we had a solid front of representatives management pose was to get the point of view of the employees and to give to the employees our point of view, and then gave the management representatives to understand that they were to act on their own judgment in these meetings without any definite instructions from the managebegan to subside.

I do not wish to appear to prophesy what results will come from our proved conclusively how the size of plan of employee representation for the bobbin was causing the breaktwo reasons: first, because prophesying is a dangerous game especially in the field of industrial relations. and secondly, because our plan is really still in its infancy and it is too early to draw definite conclusions. I will, however, trace hurriedly the kind of subjects that have come up for consideration. Some people were considerably startled and discouraged by the fact that the first resolution offered read as follows: "Resolved, that the shop council requests an increase wages In reality this of 291/2 per cent. was the most logical question that could come up because for a few months previous to the adoption of our plan the papers had been full of stories about similar demands throughout the textile industry. This question was finally settled with the general increase of 121/2 per cent in wages that was granted in New England this spring. Next came a series of requests for minor improvements such as elevator service, opening of windows, parking spaces for automobiles, regulation of traffic in front of the mill, crowding on the stairs, opening of the I therefore will refrain from giving gates, etc. Some of these requests my own opinions but will summar-were granted, others were granted ize a few opinions of what I call in part, and others were turned unprejudiced men. I recently was and in part, and others were turned unprejudiced men. I recently was down with sufficient reasons that talking about employee representa-

Employee Representation Plan At convinced a majority of the repretion with three of our overseers, all in a cable to the Department of sentatives that they should not be men who had come up from the Commerce. Trade with Germany is granted. The next big question that (Continued from Page 31) came up was a request for the mill us over 30 years and all of whom conditions existing there, bles and therefore they must be an to furnish with no cost to the em- are good common sense men. Out trian market would absorb ployees a sickness and non-indusaccident benefit plan which would pay the employees a maximum benefit of \$20 per week. The The management was opposed to this for two reasons, first, that the expense burden would put us at a serious disadvantage with our competitors and secondly, that the principle of a sick benefit plan paid for entirely by the management was wrong and would result in many abuses. this was a question that affected the answered "Yes, and three of us are plant as a whole it came up to the overseers." In other words, our aim plant committee, which, after conis to aid the overseers and superinsiderable discussion, resolved that it would not recommend to the mangement the adoption of such a sick I would also like to point out that benefit plan. The matter was not in our shop council meetings the allowed to stop there, however, and management is greatly in the mi- we now have under consideration a nority, at a meeting where there sick benefit plan under which the are, say, 30 employees there will be management and the employees only a half a dozen management would share the expense equally. erable feeling against this at first on shop councils have become more the part of the overseers as they and more constructive until the felt that they would always be constructed. improvement of quality and reduction of waste are topics on which the employees are making excellent suggestions. There is no question but that many operatives are full of councils had legislative functions ideas as to how conditions can be improved and now that the committees realize that low cost and good block anything that we disliked quality will help the employees by When we explained that the pur-resulting in more sales and steadier resulting in more sales and steadier work, they are beginning to express these ideas. The question came up why the filling was breaking to such an extent in one of our rooms. The weaver blamed the spinner, and the spinner the weaver and no agreement was reached when these two overseers took the ment how to vote, then this feeling matter up with the assistant superintendent. Finally the employee representative from the weave room the bobbin was causing the break-age of ends. On another occasion the familiar question of oil stains on the cloth was raised and a number of causes for these stains were removed by adopting the suggestions of the employee representatives. One of our production and factory conditions committees has had referred to it at the suggestion of one of the employees the task of tracing the causes for poor work in all the departments of the mill and is just now beginning in a systematic sort of a way to find out the reasons for rejecting cloth, to determine what caused each reason and to offer solution for overcoming them. Quite often well meaning students of the labor problem come up to the mill and say "I suppose if you treat your help like children you get along all right with them." My answer always is that you would not get very far if you tried it and the meetings of our committees prove that statement absolutely.

> After this description you may say to yourselves that I am a prejudiced enthusiast and that it is necessary to discount what I am saying.

ranks, one of whom has been with now much hampered by uncertain of a clear sky one of them volunteered that in his opinion employee representation was a logical develtowards improving conditions and the man that benefited as ally, the German situation has had much as anybody was the overseer. The other two heartily agreed with on Austrian domestic business what had been said. Another overseer who had been troubled for end of August amounted to the some time with dissatisfaction in equivalent of \$6,193,000, about 14 sentation had enabled him to keep there has been no change in the his men at work while a test was value of the crown. The being made to determine what the correct piece rate should be. He is confident that it prevented a walkout from his department. Still another overseer has told me how the morale in his room has changed from a feeling of sullenness and suspicion when the strike of 1922 over to a feeling of mutual helpfulness since we have had employee representation. Let me also quote one or two opinions of our employees showing how they feel about employee representation. A loom fixer was describing to me what used to happen in his room when something went wrong with the cloth. The overseer would call in the second hand and give him hell, then the second hand find the fixer on whose section the cloth was made and give him hell Then the fixer in turn would single out the guilty weaver and give him hell and so everybody down the line succeeded in getting sore. He then went on to say that now instead of the general bawling out, cause of the trouble and the remedy are looked for. Another employee has described to me how for years he has felt that the entire relationship between employer and employee has been based on antagon—Carolina, 626,604; Tennessee, 122,301; ism but that now he sees a real Texas, 3,496,479; Virginia 21,836; all drawing together as our mutual in-other States, 12,393. terests are developed.

#### Market for U. S. Goods in Austria May Expand.

trian market would absorb especialsuch American lines as leather, textiles, and specialties, Austrian business men are already reported to be starting for America. Genersurprisingly little unfavorable effect

Austrian savings deposits at the during September.

#### 7,554,587 Bales are Ginned to Nov. 1.

Washington, Nov. 8.—Cotton of this year's crop ginned to November 1, aggregated 7,554,587 running bales, compared with 8,139,215 bales ginned to that date last year and 6,646,354 bales to the same date in 1921, the Census Bureau announced today.

Ginnings included 194,677 round bales, counted as half bales; 11,521 bales of American-Egyptian, and 437 hales of sea island, compared with 142,269 round bales to November 1 last year, 13,335 bales of American-Egyptian and 3,136 bales of sea is-

Revised statistics for cotton ginned to October 18 this year placed the number of bales at 6,415,145 instead of 6,400,579 bales as announced October 25.

Ginnings by States to November 1 were announced as:

Alabama, 494,702; Arizona, 33,249; Arkansas, 392,188; California, 19,491; Florida, 11,422; Georgia, 490,142. Louisiana, 299,086; Mississippi, 455,-856; Missouri, 53,621; North Carolina, 729,611; Oklahoma, 295,606; South

#### Buenos Aires Wool Stocks Low.

Wool stocks are low but the new clip is arriving on the market from Entre Rios, and the fine cross grades Washington.—If conditions in Ger- are bringing 21 pesos (1 pesos equals many continue critical, a much approximately 32 cents per 10 kilos, larger market for American prod-according to a cable to the Comucts will become possible in Austria merce Department from Assistant and the Balkan States, says Trade Trade Commissioner George S. Commissioner William Ford Upson Brady, Buenos Aires.

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Carolina and Delta Staples All Kinds Short Cotton Lincolnton, N. C.

## Cotton Goods

sharp advances in cotton goods vious occasions, he will pay what prices. On percales the advance the market demands—as he needs was 2 cents a yard, while on some more merchandise.

lines of bleached and dyed cottons

Sheetings were quiet. Some sales the rise was 1½ cents. Prices on brogn goods went up half a cent and the same advance was noted on Southern staple ginghams. Buyers continued to hesitate over placing orders for their normal require-ments, and under present conditions the mills are reluctant to contract for forward delivery at current prices.

Many lines were temporarily advanced when cotton advanced so suddenly last week. Previous to the cotton rise, blue denim for delivery the first three months of next year were being offered, and were active sellers, but were withdrawn when cotton touched 341/2 cents for New York spots.

The volume of jobbing and retail business continues, to be built up by smaller sales for prompt shipment, although future requirements are not being anticipated in a large way.

Trade in gray goods was some-what quieter as the week ended, although cotton was firmer. prices held very steady. Day to day trading in small lots has been followed by slight advances in prices.

In many centers, in the primary market, statements continue to be made that buyers of finished goods have not yet shown any inclination to purchase more than their regular needs, in spite of the recognition that prices are due higher. It is not necessary to impress upon the buyer of finished goods that, considering the basic raw cotton, we are neces-sarily due for much higher prices. The buyer answers that he has been 'burned" on every similar previous occasion when he anticipated such rises and regardless of the fact that

#### B. H. PARKER & CO. Cotton Brokers Staples a Specialty Codes 1878-1881 Bell Phone 61 Gastonia, N. C.

WELL DRILLING AND DEEP WELL PUMPS

We do the engineering, and have had 32 years experience solving water problems satisfactorily for textile mills.

Sydrai Pump & Well Co., Inc. Richmond, Va.

New York.—The rapid rise in raw the fundamentals today are considcotton last week was followed by ered stronger than on any such pre-

> Sheetings were quiet. Some sales of 4-yard 37-inch goods were made at 13 cents and some 5-yard goods at 10% cents. For 31-inch 5-yards it was said to be hard to do any better than 10% cents. Jobbers have bought in some instances for their needs for the first quarter of the year, but this has not been gen-

> Sateens have grown firmer and on Saturday 4.20s were sold at 174 cents and 4.70s were quoted at 15 Twills have been in better cents. demand in small lots for lining purposes, 3-yard goods being quoted at 60 cents a pound. Pajama checks sold at 10% cents for 64x60s. Osnaburgs sold at 18 cents for 40-inch 7ounce goods.

> Fine combed goods were quieter, but the markets appear steadier. Hard twist voiles are bringing 151/2 cents and combed pongees of the better grades have sold as high as 17 cents.

Cotton duck quotations were put on an established basis toward the close of last week. Before that most sellers would put everything up to the mills they represented. There was a general readiness to sell stock goods at moderate concessions un-der January or late delivery terms. This led to a moderate amount of business going through at the be-ginning but interest declined toward Saturday. Single filling quotations rose from a low of 23 cents to 24% cents for C grades. A double filling advanced from 26 cents to 271/2 cents and army duck from a 58 cents basis to 61 cents. Numbered duck that heretofore sold at 40 off rose to 30 off. Hose and belting duck that sold heretofore with difficulty at 47 cents now bring 53 cents. Drills rose 4 cents a pound in two weeks.

Cotton goods prices at the week end were quoted as follows:

Print cloths, 28-inch, 65x64s, 8½ cents; print cloths, 28-inch, 64x60s, 8½; gray goods, 38½-inch, 64x64s, 1½; gray goods, 39-inch, 68x72s, 12%; gray goods, 39-inch, 80x80s, 14¾; brown sheetings, 3-yard, 16; brown sheetings, 4-yard, 14; brown sheetings, standard, 17; ticking, 8-ounce, 27½; denims, 2.20, 25; staple ginghams, 19; kid finished cambries ginghams, 19; kid finished cambrics, 10½ to 11½; dress ginghams, 21½ to 24; standard prints, 10¾.

TRADE MARK

WARP TYING MACHINES HAND KNOTTERS WARP DRAWING MACHINES AUTOMATIC SPOOLERS HIGH SPEED WARPERS

BARBER-COLMAN COMPANY
BOSTON, MASS. GREENVILLE, S.C.
MAIN OFFICE AND FACTORY:
ROCKFORD, ILL. U.S.A.

## The Yarn Market

provement was noted in the yarn ed in this last week market are market the latter part of the week, given below:

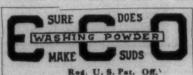
Inquiry was very much larger and it was believed that very good business will be placed for the next few to said the placed few to said the placed for the next few to said the placed few weeks. The renewed demand came after weeks during which buyers displayed practically no interest in yarns. One of the most encouraging signs of the renewal was that interest in yarns was very general. Orders came in from all divisions of the trade and from all sections of the country.

Prices quoted by spinners continued higher than those of the dealers in this market. One reason for the difference in prices is that Southern spinners are having to pay more for cotton than spot cotton is quoted in New York. Spinners point out that there prices are still too low to allow them a margin of profit and that yarns must go higher in keeping with cotton prices.

Mill agents and dealers here be-lieve that the buyers have reached the point where they must come into the market for further supplies. They have been holding off for over six weeks, during which time cotton has shown a sharp ad-vance. Yarn consumers generally are credited with having only very small stocks of yarns and any in-crease in their orders means that they will have to cover their yarn needs

Carded yarns continued better than combed counts. Towel manufacturers have bought moderately facturers have bought moderately, in one case 25,000 pounds of 20s and 30s. A few small sized insulating yarn orders were placed within the past day or two. One such contract was for 25,000 pounds, five-pound breaking strength, which was sold at 43 cents, which was ½ cent under the low price of last week. The only answer was that the seller was only answer was that the seller was trying to break in a new customer

There were a few scattered advances applied to the yarn list Saturday. Two-ply skeins up to 30s were pegged up 1 cent. Single chain warps and skeins were partly advanced.



**BEST for CLEANING** MILL FLOORS

Poland Soap Works

Anniston, Ala.

Philadelphia, Pa.-A marked im- Current prices for yarns, as quot-

88		-	a491/4
10s			a50½
12s 14s	and, the reasons was the sep and was the title was tall believe the right and the title was the title was any and any	77	852
168		-	a51 a52 a53
20s		-	a55 a57
20s 24s			a57
268			a58
30s	ordinary	-	a59
40s 40s	ordinary high grade		a69 a71
100	Two-Ply Warps.		
88		-	a50
10s			a51
12s 14s			a52
160			a53 a54
16s 20s		55	a54
248		-	a58
268		-	a59
30s	553455555555555555555555555555555555555		a60
40s	ordinary	$\bar{7}\bar{3}$	a70 a74
40s Fra	high grade me Spun Carded Yarn on		e74
· · · d	Cotton osiery Yarn.		11108
88	Outon Odicij rain.	47	a48
108		48	a40
128		49	a50
148	***************************************	50	a51
16s 18s		51	2851/2
20s		52	2a51 1/2 a52 a53
228		23	8.54
248		54	a55
268		55	a56
30s 40s		0.00	a58
40s 30s	double carded	67	a68
308	tying-in	77	a60 a57
	Sinkle Skeins.		401
. 48	to 8s		a47
108	00 38		a48
12s			a40
148			950
168		-	a51
20s			953
24s 26s		-	a551/2 a57 a571/2
30s		-	85714
408			a66 1/2
	Single Warps.	and the	
62	Single warps.		a49
8s 10s	ment was well and and well with one date the other place that he seed and well well and well and the other that the		04014
128		-	a501/2 a511/2
148		-	a511/2
168			20272
20s		-	a54
248	the selection of the se		a561/4 a571/2
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The general tone of the Bradford Trade showed a slight improvement, compared with recent weeks. The operatives are not in sympathy with the proposals of the Bradford Chamber of Commerce that the Safeguarding Act be revived, in order to allow an export duty on foreign wool textiles to alleviate unemployment also is being discussed.

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Overseer of weaving is now open for position. Have had 15 years' experience on all classes of goods from sheeting up to fancy dobbys and colored goods. 'Can furnish best of references. Address J. M. W., care Southern Textile Bulle-

Wanted-One second hand for might carding; one who thoroughly understands fixing H. & B. machinery. Address A. L. Dillworth, Caswell Cotton Mills, Inc., Kinston, N. C.

Wanted-A partner or an organization to install a textile mill, knitting mill or yarn mill in my brick building in Ennis, Texas. Building 50 ft. by 110 ft., two story, and well suited to business. Abundant water supply, cheap natural gas fuel, or electric pow-Abundant labor supply. Abundant raw material supply and ready market for products. Will take stock for my property in full or in part. Address S. H. Dunlap, Ennis, Texas.

Southern woman of education. professional training and experidesires social work some stable Southern textile industry. Supervisor or head of activities for girls and women acceptable with salary commensurate with experience. Address Social Worker, care Southern Textile Bulletin.

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During the three months' membership

fee is only \$1.00.

During the three months' membership we send the applicant notices of all vacancies in the position which he desires. We do not guarantee to place every man who joins our employment bureau, but we do give them the best service of any employment bureau connected with the Southern Textile Industry.

- WANT position as overseer weaving. Familiar with variety of weaves and can furnish excellent references. Ad-dress No. 3805.
- WANT position as superintendent, over seer weaving. Thoroughly trained in all departments of mill, I. C. S. grad-uate. Understand jacquard weaving Age 30, married, no bad habits. Good references. Address No. 3806.
- WANT position as overseer spinning or as assistant superintendent by man who can get results, either yarn or weave mill. Best of references. Address No.
- WANT position as overseer spinning. Age 37, 12 years as overseer. First class references. Address No. 3808.
- WANT position as superintendent, or overseer large card or spinning room. High class man, experienced and prac-tical, references to show good past rec-ord. Address No. 3809.
- WANT position as superintendent of large yarn mill. Have been overseer and superintendent in some of best yarn mills in North Carolina. Have fine record as to quality and quantity at low cost. Address No. 3810.
- WANT position as carder or spinner or both. Capable of handling large room in first class man. Long experience, fine references. Address No. 3811.
- WANT position as carder or spinner. Experineced mill man, now running card room at night but want day job. Good references as to character and ability. Address No. 3812.
- WANT position as superintendent. Practical man of long experience and ability to get good results. Now employed as superintendent. Good references. Address No. 3813.
- WANT position as master mechanic. Have had 24 years experience in cotton mill shops both steam and electric drive. References. Address No. 3813-
- WANT position as overseer weaving or Draper looms, plain white goods pre-ferred. Now employed, but desire better job. Good references from good mi'l men as to character and ability. Address No. 3815.
- WANT position as overseer carding. Good man, now employed, but wish better position. First class references showing good past record. Address No. 3816.
- WANT position as superintendent of yarn or weave mill. Long experience in carding, spinning and weaving, and winding. Can get quantity and quality production at lowest cost. Age 39, good character and references. Address No. 3817.
- WANT position as superintendent. Practical manufacturer of ability and experience. Good manager of help. Fine references. Address No. 3818.
- WANT position as overseer weaving. First cuass weaver in every respect, sober, re-liable and hard worker. Experienced on wide variety of goods. Good refer-ences. Address No. 3819.
- WANT position as superintendent of manager of yarn or cloth mill in the Carolinas. Now general superintendent of large mill, have held job satisfactorily for three years but have goo reasons for wanting to change. Goo references. Address No. 3821.
- WANT position as superintendent, over-seer carding or assistant superinten-dent on yarn or plain cloth mill. High class, reliable man, good manager o-help. A-1 references. Address No. 3821. High

- ANT position as overseer weaving. Strictly high class man of good character; long experience in weaving, best of references. Address No. 3823.
- ANT position as superintendent, or carder or spinner. Now employed as spinner in mill on fine yarns and am giving entire satisfaction, but want larger place. Good references. Address No. 3824.
- WANT position as superintendent, carder or spinner. Practical man of long ex-perience in good mills. Fine refer-ences. Address No. 3825.
- WANT position as master mechanic. Now employed, but want larger job. Many years experience as mechanic, and electric drive. Excellent ences. Address No. 3826.
- WANT position as superintendent or traveling salesman. Experienced mili man and can give excellent references, Address No. 3827.
- WANT position as superintendent. Have held position as such in some of the best mills in South and give satisfac-tory references to any mill needing first class man. Address No. 3827.
- WANT position as master mechanic. Long experience in mill machine shop, fully competent to handle large job. Fine references. Address No. 3829.
- ANT position as overseer carding or spinning, or superintendent. Practical man who has had many years experi-ence as superintendent and overseer and can get satisfactory results. Best of references. Address No. 3821.
- WANT position as superintendent of yarn mill or carder or spinner. Thoroughly familiar with these departments and am well qualified to handle either a room or a mill. Good references as to character and ability. Address No. 3832.
- WANT position as superintendent of mill in North Carolina making yarns or print cloths. Now employed as superintendent of 27,000 spindle mill making 30s hosiery yarn and 64x60s print cloth. Am giving satisfaction but have good reason for making change. Best of references. Address No. 3833.
- WAN'T position as superintendent or overseer carding. Long experience as both and can get good production at low cost. Would like to correspond with mill needing high class man. Ad-dress No. 3834.
- WANT position as overseer of carding. Good worker of long experience in num-ber of good mills. First class refer-ences to show past record. Address No. 3835.
- WANT position as superintendent or overseer carding and spinning. Now employed, but wish larger place. Com-petent, reliable man who can give satis-faction in every way. Good references. Address No. 3836.
- VANT position as superintendent or manager. Have had long experience as superintendent and am high class man in every respect. Can handle mill on any class of goods made in South. Want to correspond with mill needing high class executive. Excellent references from reliable mill men. Address No. 3837.
- WANT position as overseer weaving Practical weaver who can get big pro-duction at the right cost. Fine refer-ences. Address No. 3838.
- WANT position as overseer weaving. Can handle any fabric made in South. Have had over 27 years experience from loom fixer to overseer weaving and was promoted steadily by one of largest mills in the South. Married, have family, religious worker, good manager of help. Can give excellent list of references. Address No. 2829.
- WANT position as superintendent, prefer South Carolina or Georgia. Now employed as assistant superintendent and weaver and am giving entire satisfaction. Have good reasons for wishing to change. Excellent references. Address No. 3840.
- WANT position as overseer weaving, prefer job of fancies. Have been weave for past 10 years with one of the fines mills in the South. Excellent references to show a fine record. Address No. 3841.
- WANT position as superintendent, yarr mill preferred. High class man who is well trained and has had long experi-ence. Best of references. Address No. ence. 3842.
- WANT position as superintendent.
  emplayed as such, but want better
  Government as well as su-inten-

- and get operate weave mill on very satisfactory basis. Address No. 3843.
- WANT position as superintendent, carder or spinner. Now employed as superin-tendent. Long experience as both over-seer and superintendent and can get satisfactory results. Address No 3844
- WANT position as overseer carding. Have had long experience and can furnish best of references from past and present employers. Address No. 3852.
- WANT position as overseer weaving. Experienced in wide variety of fabrics and can give satisfaction. Now employed. Best of references. Address No. 3853.
- WANT position as dyrer, 12 years perience on long and short chain we raw stock, beam and Franklin r chines. Can handle any size jobs cotton. Good references and can ocon short notice. Address No. 3854.
- WANT position as overseer carding. Experienced an drelable man who ca handle your room on efficient and satisfactory basis. Good references. Address No. 3855,
- WANT position as superintendent of medium sized mill or weaver in large mill, white or colored goods; 20 years as overseer weaving, sashing and beaming in number of South's best mills. Have held present place for nine years and am giving entire satisfaction. Address No. 3856.
- WANT position as superintendent of plain or fancy goods mill, would consider offer of medium size mill at reasonable salary. Thoroughly conversant with all departments. Address No. 3857.
- WANT position as superintendent of yarm or cloth mill, ginghams preferred; age 40, have family; 22 years experience, 8 years as carder and spinner and assistant superintendent; have held last position as superintendent for 7 1-2 years. N. mill preferred. Good references. Address No. 3858.
- WANT position as overseer weaving or superintendent. Long experience in good mills and can get good results. Best of references. Address No. 3859. WANT position as overseer carding; age 33, married, 14 years in carding; 5 years as overseer. Now employed but have good reasons for wishing to change. Address No. 3860.
- WANT position as superintendent of weaving mill, or would take overseer weaving in large mill on plain or fancy goods. Now amployed in good plant and can give good references. Fine recordin good mills. Address No. 3861.
- WANT position as overseer spinning, 17 years in spinning room, now employed as second hand in 35,000 spindle room; age 28, married, sober, reliable and church member. Good references. Address No. 3862.
- WANT position as overseer spinning, spooling or twisting. Age 29, married, 10 years on spinning. Can furnish good reference. Address No. 3863.

  WANT position as carder or spinner, or both. Age 25, married, practical carder and spinner and can furnish fine references as to character and ability. Address No. 3864.
- WANT position as overseer spinning, or carding and spinning, can give good ref-erences as to character and ability, strictly sober now employed but have good reasons for wishing to change. Ad-dress No. 3866.
- WANT position as overseer cloth room experienced on drills and sheetings; also colored goods. Can give A1 references Address No. 3867.
- WANT position as carder or spinner, both. Experienced and reliable m who can produce good results. Governments. Address No. 3868.
- WANT position as superintendent, now employed as such, but wish to change; 4 years in present place, 8 years as carder and spinner or both warp and hosiery yarns, 5 years as spinner, been in mill over 25 years, thoroughly under stand all processes from picker room to winding and twisting. Good knowledge of steam and electricity. Address No. 3869.
- WANT position as overseer spinner, at \$30 weekly or more, now employed in good mill, practical and experienced man. Best of references. Address No. 3870.
- WANT position as superintendent or weaver; long practical experience, and can produce quality and quantity pro-duction. Address No. 3871.
- WANT position as overseer weaving; 12 years on heavy duck, 14 years as overseer on sheetings, drill, osbaurgs, grain bag, tubing and rope machines; am 48 Can change on short notice. Good references. Address No. 3872.

- WANT position as overseer weaving, ex-perienced on large variety of goods and can handle room on efficient basis. Ad-dress No. 2873.
- WANT position as superintendent of small mill, or weaver in large plant; now em-ployed as overseer slashing, warping and drawing-in on 360 Draper looms. Good references. Address No. 3874.
- WANT position as superintendent, yarn or weave mid. Sow employed, but wish larger place Excellent past record. Good references. Address No. 387a.
- WANT position as agent superinte dent or manager of Southern mill on white work. Would be interested in buying s tock. Can furnish best of references and can show results. Address No. 3876.
- WANT position as overseer weaving, now running 800 looms and giving satisfac-tion; familiar with colored checks, cuam-brays, many other lines; age 39, mar-ried, good references. Address No. 3877
- WANT position as overseer weaving; age 29, married, l. C. A. graduate, experienced on piain and fine work including all kinds of cotton towels and specialties. Good references. Address No. 2879
- WANT position as superintendent; 28 years experience in mill, have held present place as superintendent for 8 years, have good reasons for wanting to change. Best of references. Address No. 3880.
- WANT position as supt. of yarn mil, or carder and spinner. Now employed as carder. Can furnish good references to show my record. Address No. 3881.
- WANT position as carder in large mill, or supt, of small yarn mill; 20 years as carder and spinned; mostly in carding and assistant supt. Now employed as carder and assistant supt. Good refer-ences. Address No. 3882.
- WANT position as carder or spinner, both. Practical man of long expence; have excellent references.
- WANT position as supt. or weaver, long experience in good mills, excellent ref-erences to show character and ability. Address No. 3883.
- WANT position as supt. of spinning mill practical experienced man of good abil-ity and can get results. Address No 3884.
- WANT position as supt, and manager of small or medium mill, or overseer of large, good paying weave room. Excellent references. Address No. 3885.
- WANT position as master mechanic; 20 years experience, now employed, good references to show excellent past record. Addrss. No. 3886.
- WANT position as carder and spinner or both, or supt.; 25 years in mill, 18 as supt.; married, have family. Address No. 3887.
- WANT position as spinner, white wor preferred; experienced and reliab man. Can come on short notice. Be of references. Address No. 3888.
- WANT position as overseer of spinning, now employed as such and giving satisfaction, but wish larger place. Married, good habits, reliable and competent. Good references. Address No. 3889.
- WANT position as overseer spinning. Ex-perienced spinner, practical and capable, good character and habits, best of ref-erences. Address No. 3890.
- WANT position as supt. or would take carding or spinning. Good references to show an excellent past record and can product good results. Address No. 3891.
- ANT position as carder or spinner in large mill, or supt. of small or medium size mill. Long experience in good mills; good manager of help. First class references. Address No. 3892.
- WANT position as supt. of small mill, with opportunity of investing in mill and advance. Long experience as overseer, good character, inventor and owner of patent that will be of great value to mill equipped to use waste sock. Patent would give mill big advantage in manufacture of twine, rope and similar products. Would take stock for entire amount of pattern and invest small amount in addition, or would consider new mill. Address No. 3893.
- WANT position as master mechanic.
  Long experience on both steam and electric work, 14 years in mill shops, good references. Address No. 3895.
  WANT position as supt., assistant supt., carder or spinner, mule or ring frames, good man of long experience, best or references. Address No. 3894.

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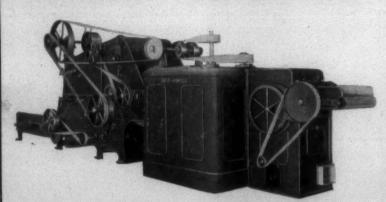
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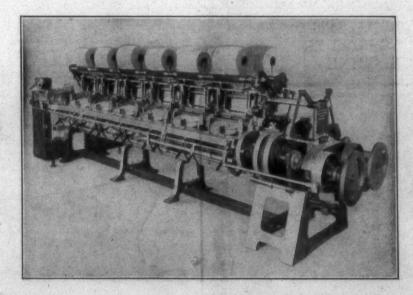
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